

The background of the cover features a grid of squares in various shades of orange and white. Two stylized wheat stalks, drawn with black outlines and filled with orange and white diagonal stripes, run vertically through the center of the design. The year '1963' is prominently displayed in the middle-left area, with '19' in a thin black outline and '63' in a solid white fill.

1963

SASKATCHEWAN WHEAT POOL
Variety Tests

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Variety Tests

WHEAT, DURUM, FLAX
AND FEED COMPARISON

1963



Published by

SASKATCHEWAN WHEAT POOL

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Foreword

By The President of The Saskatchewan Wheat Pool

This booklet is a report on more than three hundred cereal variety tests, conducted throughout the grain growing portion of this province, by young farm men and women. These young people, selected by Wheat Pool delegates, undertook to seed a number of grain varieties under identical conditions in a carefully planned statistical pattern. They (and in most cases their parents as well) spent many hours seeding these tests and looking after them during the growing season. They watched the varieties closely and reported their observations at various stages of growth. In the fall they harvested the grain with painstaking care so it could be threshed and the yields compared.

The contribution which these young people make, without expectation of reward, cannot be measured in concrete terms. Their efforts, and their enthusiasm deserve the highest commendation. On behalf of the Saskatchewan Wheat Pool I would like to express to them our sincere appreciation for a job well done.

Chas. G. Gilling

Introduction

Plant breeders have, over the years, produced a large number of new and improved grain varieties for use in this province. At one time farmers were somewhat reluctant to try new varieties, but in recent years have accepted them enthusiastically, as they realized their potential for insuring production against some of the hazards which exist on the prairies.

In carrying on its variety testing program the Saskatchewan Wheat Pool has attempted to compare new varieties with the ones in common use, and to demonstrate, in a large number of localities, the varieties best adapted to particular growing conditions.

The following pages contain a report on the testing program carried on during 1963. Since few readers will wish to study the entire report, it has been prepared in a manner which will assist the person who is chiefly interested in obtaining information about a single crop or a particular area. A table of contents on the following page indicates the location of the various sections, tables and graphs. An alphabetical index at the end of the booklet will assist the reader to find any individual test. For quick reference yield information in chart form is shown on page 15 for wheat, page 16 for durum wheat, page 21 for flax. A brief summary of conclusions can be found on page 5.

The following table indicates the number of tests seeded in 1963 and the varieties included in each:

Project	No. of Tests	Varieties
Wheat.....	149	Canthatch, Thatcher, Selkirk, Cypress, Rescue, Park, Pembina*.
Durum.....	63	Stewart, Ramsey, Pelissier, Stewart-63, Canthatch.
Flax.....	79	Redwood, Norland, Cree, Arny, Marine.
Feed Comparison.....	30	Thatcher wheat, Rodney oats, Husky barley, oat-barley mixture, wheat-oat-barley mixture.
Total.....	321	

*Each wheat test contained five varieties. Canthatch, Thatcher and Selkirk were tested throughout the province. Cypress and Rescue were tested only in Wheat Pool districts 2, 3, 4, 5, 10 in which sawfly damage presents a considerable hazard. In the remainder of the province they were replaced by Park and Pembina.

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Summary of Results

Review of the 1963 Season

From a rather mediocre beginning, the 1963 crop in this province progressed steadily upward during the growing season, to reach an all time record wheat production, estimated by the Dominion Bureau of Statistics at 493 million bushels. This compared with the previous record of 449 million bushels in 1952. Yields of the other grains were high as well, but due to smaller acreages, total production of coarse grains did not break any records. One surprising feature of the 1963 crop was the high average protein content. The view has been held that a crop produced under dry conditions is usually high in protein content, while a bountiful crop is usually lower in protein. This year tradition was broken in that a record yield of wheat contained, on average, the second highest protein on record. The combination of high yields, good quality and ready markets presents an extremely bright picture for grain producers at this time.

Wheat Tests

Canthatch and Thatcher yielded well in 1963 tests over a large portion of the province. These two varieties are equal with the single exception that Canthatch is resistant to stem rust and susceptible to leaf rust, while Thatcher is susceptible to both. For this reason Canthatch is a better choice, particularly in the central part of the province, which at times may be subject to stem, but not leaf rust. Neither variety should be grown where leaf rust is expected to occur. Selkirk did not produce outstanding results generally in 1963, although in the eastern part of the province where the effect of rust could be noted Selkirk is an obvious good choice. Pembina yielded well in the eastern and south-eastern districts but fell below some other varieties in areas where rust was less important. Cypress, a sawfly resistant variety, yielded less than Thatcher and Canthatch in most districts, but was slightly better than Rescue in yield. It is also higher in milling quality than is Rescue. Park was outyielded by the other varieties tested in most districts.

Durum Wheat Tests

Stewart 63, a new durum variety, produced outstanding yield results throughout the area in which durum tests were conducted. Because of its yielding ability and rust resistance it appears to have wide adaptability, but it has taller straw and is more subject to lodging than some varieties. Ramsey yielded well in the areas affected by rust but was not outstanding in other parts of the province. Stewart produced moderately good results but was somewhat lower in yield in the districts where moisture was limited. Pelissier yielded well under dry conditions but was affected in some areas by rust. The bread wheat variety Canthatch, included with the durums for comparison purposes, was outyielded by a wide margin. It is possible, however, that some of this margin was the result of factors other than yielding ability. This point is discussed in further detail in the durum wheat section of this report.

Flax Tests

Cree flax yielded quite well in 1963 over a large area. Although high in yield, this variety is susceptible to some types of rust now appearing in the province. Since flax rust, unlike rust of other grains, can survive on stubble over the winter, the danger of infection is not confined to the eastern and south-eastern part of the province and rust-susceptible varieties of flax may be hazardous to grow in any area. Redwood yielded well in the southern and south-western districts, and moderately well in central and west central districts. It is resistant to rust. Norland produced relatively low yields in the northern districts, but yielded moderately well in southern areas. It, too, is resistant to rust. Army produced good results in the northern districts, and yielded moderately well in the south. Marine, an earlier maturing variety, was generally low in yield in most districts but it produced better results in those areas which were relatively short of moisture this year. Both Army and Marine are susceptible to the new type of rust which has recently appeared in the province.

Feed Comparison Tests

Yield of grains or grain mixtures grown for feeding purposes can be compared on several bases. In terms of total weight of grain produced per acre, barley seeded alone yielded the most in all areas of the province with the exception of the south-east. An oat-barley mixture also yielded quite well over most of the province. It ranked first in yield in the south-east, and placed second on the average in the west and south-west and in the north. A wheat-oat-barley mixture was generally intermediate in yield. Oats seeded alone yielded quite well in the south-east of the province, but not in other areas. Wheat seeded alone produced the lowest yields on average in all of the areas.

A more adequate basis for comparison of varieties for feeding purposes, is to consider the feeding value (or total digestible nutrients) per acre produced by the various grains and mixtures. In these terms barley seeded alone produced the greatest quantity of feed value per acre in the west, south-west and in the northern areas of the province. The oat-barley mixture ranked first in feeding value per acre in the south-east area, and ranked second on average in the remainder of the province. The wheat-oat-barley mixture produced moderately good results. With the exception of the south-east, where oats seeded alone produced good feeding value, wheat alone or oats alone were, on average outranked by the other types of feed.



Barry Skarra of Peterson had some assistance from his younger brother and sister, in the job of conducting a flax test.

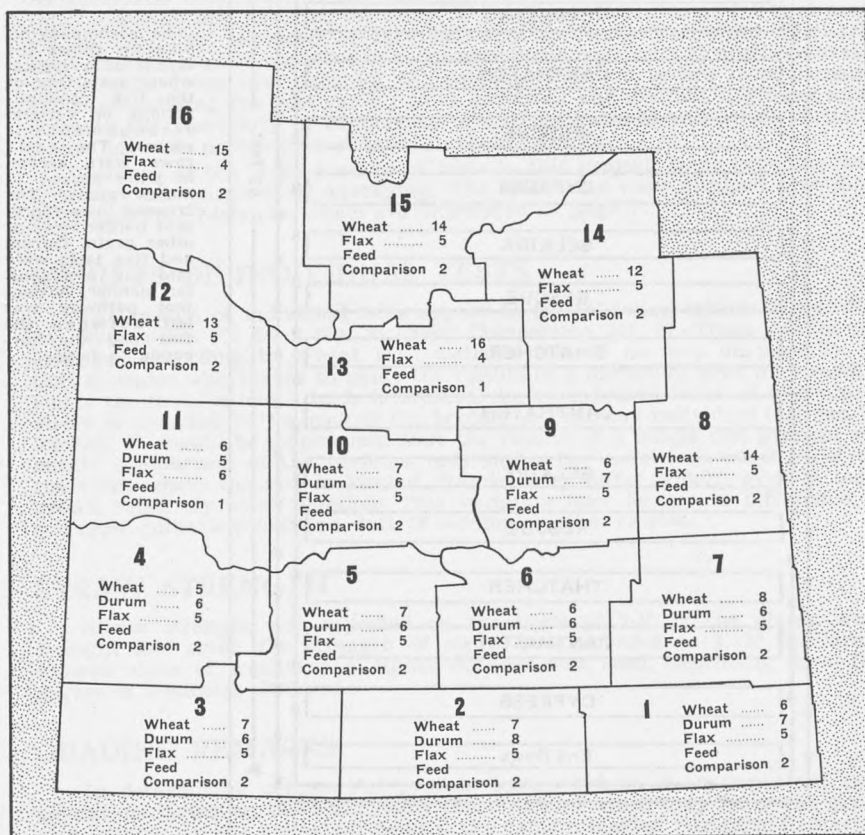
Organization of the Testing Program

Selection of varieties to be tested, and planning of the project was done with the advice of the Crop Science Department of the University of Saskatchewan. Valuable assistance was given by Dr. W. J. White, head of the department, and by Drs. D. R. Knott and E. N. Larter. Threshing, summarizing and statistical analysis were carried on under the direction of A. D. McLeod, B.S.A.

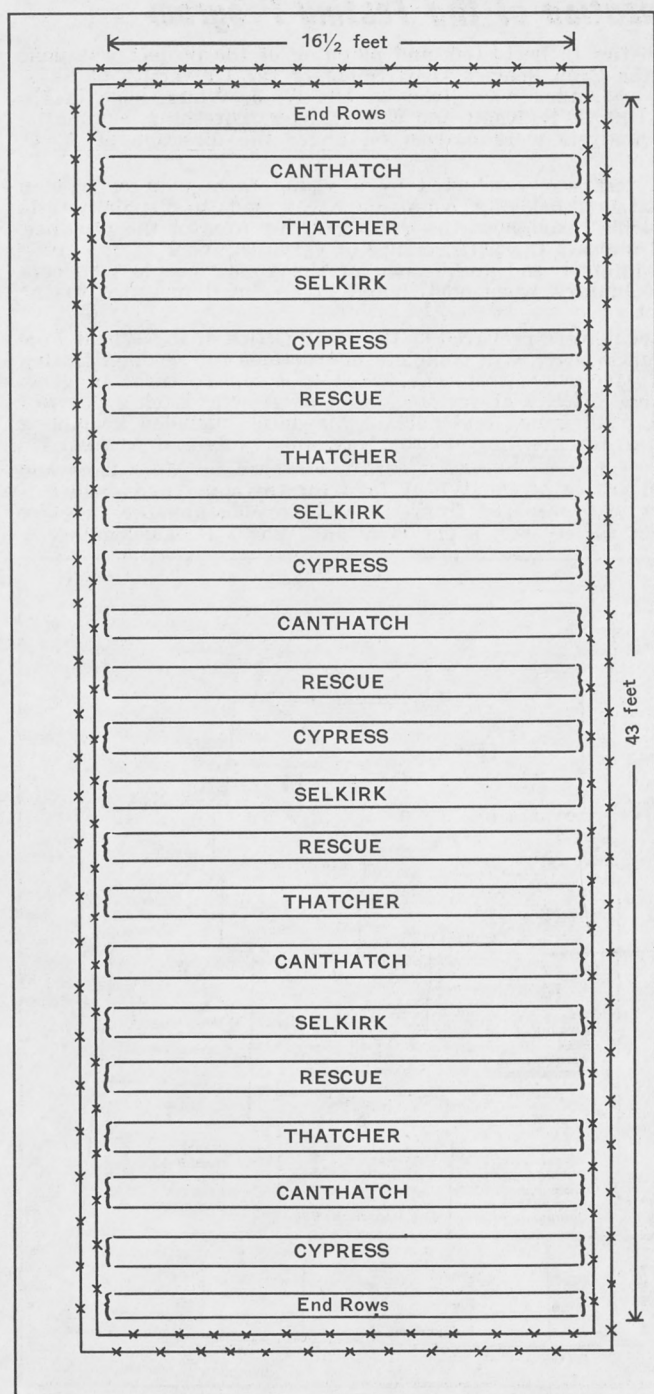
Each individual test was conducted by a young farm man or woman selected by the Wheat Pool delegate. An attempt was made to distribute tests as uniformly as possible throughout the grain growing area of the province, so the results would indicate the performance of varieties under varied growing conditions. The interest and enthusiasm of the young people who conducted tests on a voluntary basis contributed in no small measure to the success of the project.

Seed and equipment were prepared at the Head Office of the Wheat Pool and mailed to the supervisors, with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties at various stages of growth. Each supervisor was supplied with a rain gauge and part of his duties included keeping a daily record of rainfall for the four months May, June, July and August.

In the fall, the grain was harvested, dried, wrapped in paper bags and shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared from the yield results and the progress reports received from variety test supervisors and Wheat Pool delegates.



MAP SHOWING DISTRIBUTION OF TESTS IN 1963



PLAN OF TEST

The accompanying diagram shows the layout of a typical wheat test. One of the five randomizations or varietal arrangements is shown. The test rows were seeded in pairs spaced 12 inches apart. The crossed lines represent border rows of other grain. Durum and flax tests were laid out in a similar manner. A two-foot pathway was left between the test and the surrounding field.

Description of Tests

Several methods were used to ensure that all varieties in any one test had an equal opportunity. The diagram on page 8 shows the arrangement of varieties in an approved statistical pattern known as a randomized block plan. In so far as it was possible the tests were grown under normal field conditions on summerfallow. Supervisors were asked to locate their tests on uniform soil and in locations where they would not be damaged by birds, animals or insects.

Each test consisted of 44 rows, each 16½ feet long and spaced 12 inches apart. Five varieties were included in each test and each was repeated (replicated) four times. A replicate of each variety consisted of a pair of rows to give a total of 40 test rows. In addition, two rows were seeded at each end of the test for protection purposes. The entire test was surrounded by a double row of a different grain, which served as a border but was not harvested. At harvest time each pair of test rows was made into a single sheaf, and the 20 sheaves were threshed and weighed separately.

Interpretation of Results

Growing conditions and hazards which limit grain production vary widely from one area of the province to another and from one year to another. In some areas crop hazards such as rust, frost, sawfly damage or drought can be expected to occur in most years. In some other areas the frequency of occurrence, or severity of these hazards may vary considerably, depending on particular conditions in any one year. For example the area east of the third meridian and south of township 30 is often referred to as the rust area, yet in 1954 rust extended as far northwest as North Battleford. Similarly frost damage may be expected to occur with some regularity in northern areas, yet in 1950 crops over most of the province suffered severe frost damage. When considering the best variety to be grown at any location, a grower must consider the possibility of occurrence of various hazards and select varieties which have the necessary resistance to these hazards.

Because of the large number of tests in this project, some grouping was necessary for purposes of averaging. The 1963 tests were grouped according to Wheat Pool Districts, which are illustrated on page 7.

RESULTS OF INDIVIDUAL TESTS

The results of individual tests appear in the following tables: Wheat No. 24; Durum No. 25; Flax No. 26; Feed Comparison No. 27. These results are arranged according to Wheat Pool districts (shown on map on page 7), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical index of test supervisors is included at the back of the booklet so that any individual test can be located. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to difference in soil type, climatic conditions, date of seeding or other causes.

STRAW STRENGTH

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

GRADING REMARKS

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks"

contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain. The following abbreviations have been used to indicate the various defects:

Bl. — Bleached
Dp. — Damp
Er. — Ergot
S. — Shrunken Kernels

St. — Starchy
Sp. — Sprouted
T. — Thin
W. — Weather stained

NECESSARY DIFFERENCE

This term is used in comparing yields of varieties in a single test or in an area. "Necessary Difference" is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the same test to be considered significantly higher in yield.

RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by Wheat Pool districts for the four months which represent the grain growing period in Saskatchewan. Rainfall for individual tests is reported in the section "Individual Results of Tests."

TABLE No. 1—Average Monthly Rainfall in Inches During Period May-August Summarized by Wheat Pool Districts

District	May	June	July	August	Total
1	2.89	4.44	4.39	2.48	14.81
2	1.79	5.51	3.14	1.69	12.40
3	1.10	4.68	1.62	.67	7.98
4 .....	.86	4.96	1.37	1.28	8.52
5	1.40	6.28	2.13	1.87	11.76
6	2.25	4.46	4.68	2.27	13.81
7	2.29	4.62	4.03	3.34	14.37
8	1.64	3.77	2.72	2.34	10.83
9	2.03	4.11	3.01	1.63	10.83
10	1.91	4.49	2.07	2.75	11.19
11 .....	.87	4.67	1.95	1.33	8.73
12 .....	.99	4.59	4.03	3.21	12.98
13	1.59	4.34	2.64	1.87	10.50
14	1.46	3.68	3.45	1.99	10.20
15 .....	.88	4.50	3.30	1.90	10.73
16 .....	.79	4.11	2.67	2.50	10.07

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.



Betty and James Hiebert worked in partnership to look after a test at Bay Trail.

Wheat Tests

A total of 149 bread wheat tests were conducted in 1963. Each test contained five varieties. Three of these, Canthatch, Thatcher and Selkirk, were included in tests throughout the province. Cypress and Rescue, both sawfly resistant varieties were included only in tests located in the western, south-western and west-central part of the province (Wheat Pool districts 2, 3, 4, 5, 10). In the remainder of the province they were replaced by Park and Pembina.

Description of Varieties

Canthatch was developed by the Canada Department of Agriculture at Winnipeg and licensed for commercial distribution in 1959. It is very similar to Thatcher in appearance and growth characteristics. However, it has the added advantage of resistance to stem rust, which makes it valuable under a wider range of growing conditions than Thatcher. Because of this wider adaptability, Canthatch is expected to replace Thatcher in a considerable portion of the province.

Thatcher was included in the 1963 tests because it is still the most widely-used bread wheat variety in the province, and to demonstrate its performance relative to that of Canthatch. Thatcher is resistant to drought, shattering and spring frost damage, but susceptible to bleaching. It is resistant to loose smut and moderately resistant to common root rot but susceptible to stem and leaf rust, and covered smut.

Selkirk was developed by the Canada Department of Agriculture at Winnipeg and licensed for commercial distribution in 1953. It is equal to Thatcher and Canthatch in maturity, straw length and straw strength. It is less resistant to shattering but more resistant to bleaching. Selkirk is resistant to stem rust and to loose and covered smut, and moderately resistant to leaf rust.

Cypress is a solid-stemmed, sawfly-resistant variety developed by the Canada Department of Agriculture at Lethbridge, and licensed for commercial distribution in 1962. Developed from a cross between Chinook and Rescue, this variety combines the high quality and desirable kernel characteristics of Chinook with the superior sawfly resistance of Rescue. Cypress is medium early in maturity, and has mid-strong straw. It is less resistant to shattering and lodging than Thatcher and Canthatch, and is susceptible to leaf and stem rust and loose and covered smut.

Rescue is a sawfly-resistant variety licensed for commercial distribution in 1946. It is mid-early in maturity and has mid-strong straw. It is susceptible to rusts and smuts. Because of somewhat inferior baking quality, Rescue will likely be replaced by Cypress, which combines sawfly resistance with high quality.

Park was developed at the experimental farm at Lacombe, Alberta, and licensed for commercial distribution in 1963. It is a relatively early-maturing variety with strong straw. It is resistant to shattering and lodging, but susceptible to leaf and stem rust. Park is resistant to loose smut but susceptible to covered smut.

Pembina was developed by the Canada Department of Agriculture at Winnipeg and licensed for commercial distribution in 1959. It is earlier in maturity than Selkirk and has shorter straw. Pembina has slightly more resistance than Selkirk to stem and leaf rust. It is resistant to loose smut but moderately susceptible to covered smut.

Performance of Varieties

YIELDS

Southern, and south-western districts. Thatcher and Canthatch were very similar in yield. In each of these districts only a fraction of a bushel separated them, and in no district was the yield difference as large as the Necessary Difference. This means that for all practical purposes the two varieties are equal in yield. Selkirk was somewhat lower in yield and ranked third on the

average in this area. **Cypress** and **Rescue** were very close in yield in districts 2, 3, and 10, where only a fraction of a bushel separated them. Only in district 5 was **Cypress** higher by an amount greater than the **Necessary Difference**. However, as mentioned in the description of these varieties, **Cypress** is higher in quality and should be favored for this reason.

Eastern and northern districts. **Selkirk** outyielded the other varieties in all these districts with the exception of district 11. On an average basis **Canthatch** ranked second followed by **Thatcher**. It would appear that the effect of rust in some parts of this area caused a reduction in **Thatcher** yields. **Pembina** was not outstanding in yield in this area as a whole but it should be noted that in districts 1, 6, and 8 where rust damaged occurred, **Pembina** ranked second to **Selkirk** in each case. **Park** was outyielded by the other varieties tested in most of the districts included in this area.

**Table No. 2—Average Yields in Bushels per Acre
Summarized by Districts**

Wheat Pool District	No. of Satisfactory Tests	Canthatch	Thatcher	Selkirk	Park	Pembina	Cypress	Rescue	Necessary* Difference in Bushels
1	6	21.2	20.8	23.8	19.8	22.1	—	—	1.12
2	7	26.1	26.5	26.7	—	—	23.1	23.1	.90
3	6	21.1	20.3	19.7	—	—	18.6	18.3	1.04
4	3	23.7	24.4	23.7	—	—	23.0	22.2	N.S.
5	6	26.3	26.1	25.3	—	—	22.9	21.4	1.28
6	5	29.5	28.3	30.6	29.4	29.9	—	—	1.36
7	7	31.7	31.3	34.0	30.0	31.2	—	—	N.S.
8	11	38.1	38.7	42.3	36.4	39.4	—	—	1.13
9	6	38.7	37.9	40.6	34.7	38.4	—	—	N.S.
10	6	29.5	30.2	29.6	—	—	25.8	25.3	1.06
11	4	36.7	36.9	34.6	36.4	34.6	—	—	N.S.
12	11	41.0	39.9	42.7	37.8	38.1	—	—	1.13
13	12	28.0	28.3	29.8	27.4	27.1	—	—	1.13
14	11	34.9	36.0	40.0	33.0	34.8	—	—	1.43
15	9	32.1	31.8	36.1	31.7	32.1	—	—	3.29
16	15	37.5	36.8	38.6	36.1	35.0	—	—	1.17

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area. N.S.—Yield differences not significant.

TIME OF MATURITY

Southern and south-western districts. In none of these districts was there more than one day difference in maturity among these five varieties. For practical purposes there is no economic difference in maturity.

Eastern and northern districts. On an average basis **Park** was earlier than the other varieties tested, but the difference between it and **Pembina** was slight, and in some districts their order of maturity was reversed. While the other three varieties were somewhat later they differed only slightly from each other.

**Table No. 3—Average Number of Days from Seeding to Ripening
Summarized by Districts**

Wheat Pool District	Canthatch	Thatcher	Selkirk	Park	Pembina	Cypress	Rescue
1	89	89	89	87	88	—	—
2	93	93	93	—	—	94	93
3	92	92	92	—	—	93	92
4	98	98	97	—	—	98	98
5	88	88	88	—	—	88	88
6	94	94	93	94	93	—	—
7	94	94	94	94	94	—	—
8	97	96	96	95	94	—	—
9	99	100	100	99	100	—	—
10	99	99	99	—	—	99	99
11	94	94	94	94	95	—	—
12	97	97	97	96	97	—	—
13	98	98	98	97	98	—	—
14	98	99	98	98	97	—	—
15	110	109	108	107	104	—	—
16	99	99	100	99	99	—	—

PLANT HEIGHT

Under arid conditions a short-strawed variety may be difficult to harvest, but under moist conditions a long-strawed variety may have some tendency to lodge. For this reason the following discussion simply indicates the relative height of the varieties tested and the reader can interpret in terms of his own requirements.

Southern and south-western districts. On an average basis in these districts **Cypress** and **Rescue** were slightly taller than the other varieties tested. Only minor differences in height were reported for the other varieties and there would appear to be little difference among them.

Eastern and northern districts.—Of the five varieties tested in this area, **Pembina** was quite consistently shorter than the others although in most districts the difference was confined to an inch or two. There appeared to be virtually no difference in height among the varieties **Canthatch**, **Thatcher** and **Selkirk**, while **Park** was generally intermediate between these varieties and **Pembina**.

Table No. 4—Average Height of Plants in Inches
Summarized by Districts

Wheat Pool District	Canthatch	Thatcher	Selkirk	Park	Pembina	Cypress	Rescue
1	31	32	31	30	29	—	—
2	35	35	35	—	—	36	36
3	27	27	27	—	—	27	27
4	27	28	27	—	—	27	27
5	36	36	36	—	—	36	37
6	35	35	35	34	33	—	—
7	32	34	34	32	31	—	—
8	35	36	35	35	34	—	—
9	34	35	35	35	35	—	—
10	34	34	34	—	—	36	34
11	34	35	35	33	32	—	—
12	37	37	37	35	34	—	—
13	33	33	33	33	32	—	—
14	36	37	37	36	35	—	—
15	35	34	34	35	34	—	—
16	38	38	38	36	36	—	—

STRAW STRENGTH

Southern and south-western districts. No serious straw weakness was evident in any of the varieties in this area, and there is little to choose among them in this regard. On an average basis they ranked in the following order of straw strength: **Thatcher** and **Canthatch**, **Selkirk**, **Cypress**, **Rescue**.

Eastern and northern districts. None of the varieties tested in this area showed evidence of serious straw weakness. On an average basis they ranked in the following order: **Selkirk**, **Thatcher**, **Canthatch**, **Park**, **Pembina**.

Table No. 5—Average Straw Strength of Plants on the Basis 1 (Strong)
to 9 (Weak)—Summarized by Districts

Wheat Pool District	Canthatch	Thatcher	Selkirk	Park	Pembina	Cypress	Rescue
1	2.6	2.5	2.4	2.9	2.8	—	—
2	1.6	2.0	2.1	—	—	3.0	2.4
3	1.4	1.3	1.5	—	—	1.4	1.6
4	1.6	1.6	2.2	—	—	1.2	1.2
5	2.1	2.2	1.6	—	—	2.5	3.2
6	3.2	2.6	3.0	3.6	4.3	—	—
7	2.2	1.9	1.9	2.2	2.2	—	—
8	2.2	1.9	1.6	2.7	2.6	—	—
9	4.8	3.8	2.4	3.7	4.1	—	—
10	3.5	3.1	2.9	—	—	3.6	4.1
11	1.9	1.7	1.1	3.4	3.7	—	—
12	2.8	2.7	2.6	2.8	3.6	—	—
13	2.9	2.8	2.8	3.0	3.2	—	—
14	3.4	3.4	2.8	3.0	3.7	—	—
15	2.6	2.8	3.2	3.4	3.8	—	—
16	2.5	2.6	2.2	3.2	3.1	—	—

WEIGHT PER MEASURED BUSHEL

Weight per measured bushel is one of the characteristics considered in grading a sample of grain. In the absence of specific damage such as frost, weathering, immaturity, etc., bushel weight can sometimes cause a difference of one or two grades in samples of two difference varieties, with a resultant difference of several cents per bushel in the market value.

Southern and south-western districts. Samples of **Cypress** outweighed those of the other four varieties in each of these districts. On an average basis **Canthatch** ranked second, followed by **Rescue** and **Thatcher** in that order. In all these districts **Selkirk** samples produced the lowest bushel weight.

Eastern and northern districts. In this area **Canthatch** samples outweighed the other varieties with **Park** running a close second. **Pembina** and **Thatcher** were quite similar in bushel weight in these districts. As in the remainder of the province **Selkirk** was outweighed by all other varieties tested this year.

**Table No. 6—Average Weight per Measured Bushel
Summarized by Districts**

Wheat Pool District	Canthatch	Thatcher	Selkirk	Park	Pembina	Cypress	Rescue
1	59	57	56	58	57	—	—
2	59	58	56	—	—	60	58
3	59	58	56	—	—	61	60
4	62	61	58	—	—	63	61
5	57	57	54	—	—	59	57
6	62	61	59	61	61	—	—
7	62	61	59	61	61	—	—
8	63	62	61	62	62	—	—
9	61	60	59	60	61	—	—
10	59	58	57	—	—	60	58
11	63	62	61	63	61	—	—
12	61	60	59	61	61	—	—
13	61	60	59	61	60	—	—
14	61	61	59	61	60	—	—
15	60	59	58	59	59	—	—
16	61	61	59	61	61	—	—

COMMERCIAL GRADES OF SAMPLES

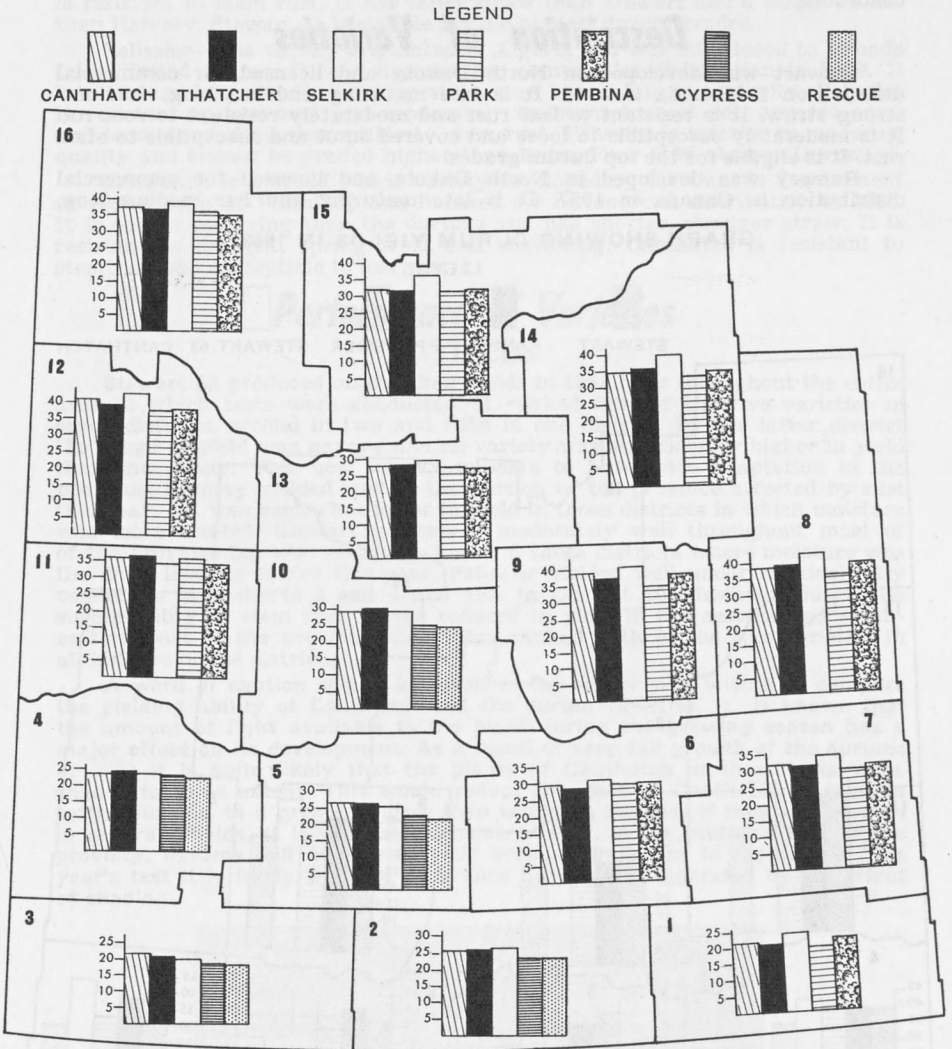
Southern and south-western districts. The influence of bushel weight is evident in the percentage of samples falling in the various grades. **Cypress** topped the list with 64.3% of the samples grading One or Two Northern. **Rescue** also graded well with 42.9% in these two grades. **Canthatch** ranked third on this basis, followed by **Thatcher**. The lower bushel weight of **Selkirk** resulted in a substantially smaller percentage of samples falling in these two grades.

Eastern and northern districts. In these districts the great majority of samples of all varieties fell in the top two grades. **Park** graded somewhat better than the others, with 88% of samples in these grades. **Canthatch**, with 84% in this category, ranked second. In the case of **Pembina** 80% of the samples graded either One or Two Northern. **Selkirk** ranked fourth on this basis, and **Thatcher** ranked fifth.

**Table No. 7—Percentage of Commercial Grades by Varieties
Pool Districts: 1, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16**

Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	4 Sp. %	No. 5 %	No. 6 %	Fd. %
Canthatch	9	75	11	1	1	1	—	1
Thatcher	6	68	20	2	1	1	1	1
Selkirk	8	68	14	4	2	1	1	2
Park	8	80	7	1	1	2	—	1
Pembina	5	75	14	2	1	1	1	1
Pool Districts: 2, 3, 4, 10								
Canthatch	—	42.9	28.6	17.9	3.5	7.1	—	—
Thatcher	—	28.6	28.5	14.3	14.3	14.3	—	—
Selkirk	—	17.9	32.2	7.1	7.1	21.4	14.3	—
Cypress	3.5	60.8	25.0	10.7	—	—	—	—
Rescue	3.6	39.3	25.0	17.9	7.1	7.1	—	—

GRAPH SHOWING WHEAT YIELDS IN 1963



Durum Wheat Tests

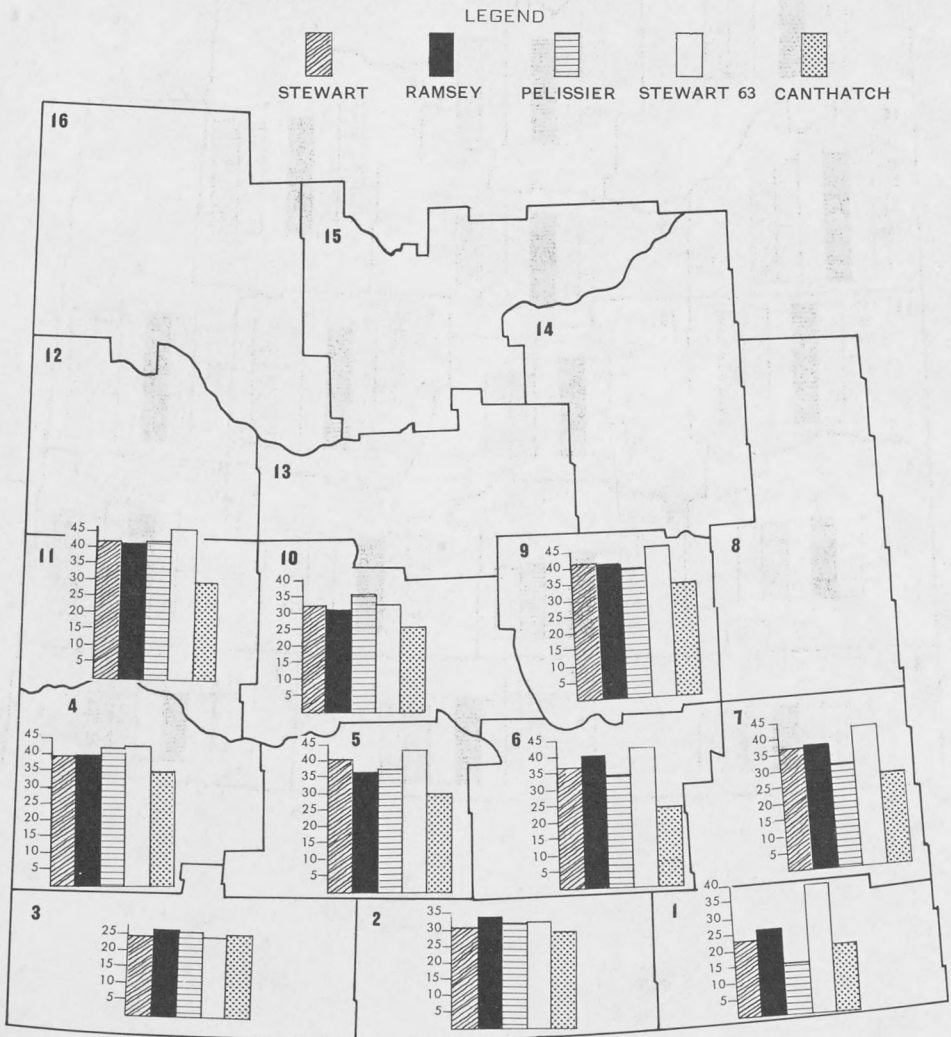
A total of 63 durum tests were conducted in 1963. Each contained the four durum varieties Stewart, Ramsey, Pelissier, Stewart 63 and the bread wheat variety Canthatch. This latter variety was included in an attempt to show the relative yielding ability of bread and durum wheat grown under the same conditions.

Description of Varieties

Stewart was developed in North Dakota and licensed for commercial distribution in Canada in 1946. It is late maturing and has long, medium-strong straw. It is resistant to leaf rust and moderately resistant to root rot. It is moderately susceptible to loose and covered smut and susceptible to stem rust. It is eligible for the top durum grades.

Ramsey was developed in North Dakota and licensed for commercial distribution in Canada in 1957. It is late maturing and has medium-long,

GRAPH SHOWING DURUM YIELDS IN 1963



medium-strong straw. It is resistant to stem rust and moderately resistant to leaf rust and root rot. It is moderately susceptible to covered smut and susceptible to loose smut. Ramsey is eligible for the top durum grades.

Stewart 63 (grown under the code number Durum-63) is the first durum variety developed at the University of Saskatchewan. It was licensed for commercial distribution in 1963. In most respects it resembles Stewart, but is resistant to stem rust. It has taller straw than Stewart and a larger kernel than Ramsey. Stewart 63 is eligible for the highest durum grades.

Pelissier—this variety originated in Algeria and was introduced to Canada from United States. It was licensed for commercial distribution in 1929. It has medium-long, medium-strong straw and is mid-late in maturity. Pelissier is resistant to leaf rust and moderately resistant to root rot, covered smut and loose smut. It is susceptible to stem rust. Pelissier is inferior in macaroni quality and cannot be graded higher than Extra Four C.W. Amber Durum.

Canthatch is a bread wheat variety developed by the Canada Department of Agriculture at Winnipeg and licensed for commercial distribution in 1959. It is earlier maturing than the durums and has shorter, stronger straw. It is resistant to drought, spring frost and shattering. Canthatch is resistant to stem rust and susceptible to leaf rust.

Performance of Varieties

YIELDS

Stewart 63 produced outstanding yields in 1963 tests throughout the entire area in which tests were conducted. It ranked first of the five varieties in seven districts, second in two and fifth in one district. In this latter district the range of yield was narrow and no variety was significantly higher in yield than the others. This new variety appears to have wide adaptation in the province. **Ramsey** yielded well in the portion of the province affected by rust this year, but was somewhat lower in yield in those districts in which moisture was more limited. **Stewart** performed moderately well throughout most of the province but was relatively lower in those districts where moisture was the chief limiting factor this year. **Pelissier** yielded well under relatively dry conditions in Districts 3 and 4 and also in District 10. However, due to its susceptibility to stem rust it was reduced in yield in the eastern and south-eastern part of the province. **Canthatch** ranked fifth of the five varieties in all but two of the districts.

A word of caution should be given to the reader who wishes to compare the yielding ability of Canthatch and the durum varieties. It is known that the amount of light available to the plant during the growing season has a major effect on its development. As a result of very tall growth of the durums in 1963 it is quite likely that the plants of Canthatch in these tests were shaded to some extent. This would reduce the yield of Canthatch in relation to the durums, to a greater degree than would be the case if they were grown in separate fields. It is generally considered that, in the southern part of the province, durums will usually outyield bread wheats, but in the case of this year's test it is likely that the difference has been exaggerated by the effect of shading.



Victor Deptuck points to a heavy stand of wheat in his variety test at Smuts.

**Table No. 8—Average Yields in Bushels Per Acre
Summarized by Districts**

Wheat Pool District	No. of Satis. factory Tests	Stewart	Ramsey	Pelissier	Stewart 63	Canthatch	Necessary* Difference in Bushels
1	5	23.0	26.0	15.5	39.0	20.4	2.70
2	8	31.0	33.9	32.1	32.9	29.4	1.50
3	5	24.9	26.4	25.8	24.5	25.4	N.S.
4	5	39.6	39.9	42.0	42.2	34.7	2.08
5	5	40.5	36.5	37.7	43.5	30.0	1.56
6	5	36.4	40.1	34.1	42.3	24.0	2.62
7	4	36.9	37.6	32.4	42.3	27.5	2.55
9	6	41.4	41.3	39.0	45.2	33.9	1.76
10	3	32.5	31.2	35.5	32.9	25.9	1.32
11	4	42.0	41.4	42.0	45.3	29.9	2.25

*Necessary Difference—Since yielding ability cannot be measured with absolute accuracy small differences have no significance. 'Necessary Difference' is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables little confidence can be placed in the superiority of one variety over the other in that particular area.
N.S.—Yield differences not significant.

TIME OF MATURITY

Canthatch matured noticeably earlier than the durum varieties. In some districts the difference in maturity amounted to ten days. Such differences make it inadvisable to grow durums in northern parts of the province or in other locations subject to frost damage. Among the four durum varieties **Pelissier** was generally later than the others. The three varieties **Stewart**, **Ramsey** and **Stewart 63** were reasonably similar in time of maturity. In most districts the differences among these varieties amounted to only a day or two.

**Table No. 9—Average Number of Days from Seeding to Ripening
Summarized by Districts**

Wheat Pool District	Stewart	Ramsey	Pelissier	Stewart 63	Canthatch
1	105	105	106	105	101
2	94	94	94	94	91
3	87	89	95	83	84
4	99	101	101	101	91
5	96	99	96	99	92
6	107	107	107	107	98
7	103	103	105	106	96
9	103	102	104	103	97
10	96	93	96	96	91
11	98	98	101	98	95

PLANT HEIGHT

One of the major difficulties with durum wheat is its long, relatively weak straw, which often causes lodging under unfavorable weather conditions. For this reason plant height is a relatively important characteristic of this crop and short straw is desirable. The bread wheat variety **Canthatch** produced consistently shorter straw than the four durum varieties. On an average basis **Ramsey** was shorter than the other durum varieties, followed by **Pelissier** and **Stewart** in that order. In nearly all districts **Stewart 63** was taller than the other four varieties.

**Table No. 10—Average Height of Plants in Inches
Summarized by Districts**

Wheat Pool District	Stewart	Ramsey	Pelissier	Stewart 63	Canthatch
1	37	36	37	38	33
2	41	41	42	42	36
3	37	35	35	39	31
4	39	39	40	41	33
5	41	41	40	44	33
6	44	42	44	45	34
7	43	40	40	43	34
9	49	45	48	47	38
10	40	38	39	41	34
11	44	43	44	45	34

STRAW STRENGTH

As indicated in the discussion of plant height above, the length and strength of straw are important characteristics in the choice of durum varieties. In most of the districts **Canthatch** showed greater straw strength than the durum varieties. Among the durums **Stewart** and **Ramsey** were reasonably similar in strength of straw. **Stewart 63** was intermediate in strength and **Pelissier** was, in most districts, weaker than the other varieties tested.

Table No. 11—Average Straw Strength of Plants
On the Basis 1 (Strong) to 9 (Weak)—Summarized by Districts

Wheat Pool District	Stewart	Ramsey	Pelissier	Stewart 63	Canthatch
1	4.8	5.1	5.5	5.8	3.6
2	1.9	2.1	2.7	2.6	2.2
3	2.7	3.4	3.5	3.0	4.0
4	3.2	3.5	4.0	3.7	3.4
5	3.5	4.0	4.0	4.1	4.5
6	3.6	3.6	4.0	3.6	1.6
7	5.0	4.5	6.2	5.6	4.5
9	2.8	3.0	3.4	3.0	2.6
10	2.6	2.3	2.5	2.8	1.8
11	4.6	4.5	4.9	4.9	4.5

WEIGHT PER MEASURED BUSHEL

Durum varieties characteristically produce higher bushel weights than do bread wheats, so it was to be expected that **Canthatch** would rank fifth of the varieties tested in regard to this measurement. Because of adequate moisture in most parts of the province in 1963, most of the samples weighed very well, and in few instances was bushel weight the cause of a reduction in grade. On an average basis **Ramsey** produced higher bushel weights than the other varieties, followed by **Stewart** and **Stewart 63** in that order. In most districts **Pelissier** samples were lower in bushel weight than were the other durums.

Table No. 12—Average Weight Per Measured Bushel
Summarized by Districts

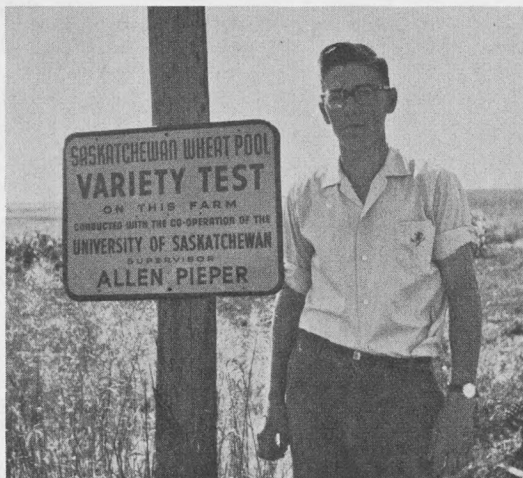
Wheat Pool District	Stewart	Ramsey	Pelissier	Stewart 63	Canthatch
1	57	61	54	63	57
2	63	63	63	62	59
3	61	63	62	61	59
4	65	65	64	64	61
5	66	66	64	66	62
6	66	66	64	67	61
7	64	63	61	65	60
9	65	65	64	65	61
10	64	64	63	63	59
11	65	65	64	65	60

COMMERCIAL GRADES OF SAMPLES

Because of the different bases of grading bread and durum wheats it is not possible to make a direct comparison between **Canthatch** and the durum varieties. **Canthatch** graded well with a high percentage of the samples falling in the top three grades. As mentioned in the description of varieties, the macaroni quality of **Pelissier** is such that it cannot qualify for grades higher than Extra Four C.W. In the 1963 tests nearly 90% of the samples of **Pelissier** fell within this grade. The three varieties **Stewart**, **Ramsey** and **Stewart 63** are all eligible for top durum grades and can therefore be compared with each other. In the 1963 tests **Stewart 63** graded somewhat better than the others, with 32% of the samples in the grade One C.W. **Stewart** graded somewhat less well with nearly 27% of the samples in the top durum grade. Of the **Ramsey** samples just under 20% qualified for the grade One C.W.

Table No. 13—Percentage of Commercial Grades by Varieties

Variety	% 1 CW	% 2 CW	% 3 CW	% Ex 4 CW	% 4 CW	% 5 CW	% 6 CW	% Fd.
Stewart	26.8	37.5	25.0	—	5.4	1.8	1.8	1.7
Ramsey	19.6	57.2	16.1	—	5.4	—	1.0	—
Pelissier	—	—	—	89.3	—	5.4	1.7	3.6
Stewart-63	32.1	34.0	21.4	—	12.5	—	—	—
	1 Nor.	2 Nor.	3 Nor.	4 Nor.	4 Spec.	No. 5	No. 6	Fd.
Canthatch	5.4	43.0	35.7	12.5	1.7	1.7	—	—



This sign, displayed on Number Two highway indicates that Allen Pieper conducted a variety test at Simpson.



This sign indicates the location of Myron Sereda's variety test at West Bend.

Flax Tests

A total of 79 flax tests were conducted in 1963. Each test contained the five varieties Redwood, Norland, Cree, Arny, Marine. Flax tests were grown in all Wheat Pool districts in the province.

Description of Varieties

REDWOOD—this variety was developed in Minnesota and licensed for commercial distribution in Canada in 1951. It is late maturing and has good straw length. It is resistant to rust and wilt.

NORLAND—is a selection from the variety Victory, made in North Dakota. It was licensed for commercial distribution in Canada in 1954. Norland is late maturing and has medium-tall straw. It is resistant to rust and has fair resistance to wilt.

CREE—was developed by the Canada Department of Agriculture at Winnipeg and licensed for commercial distribution in 1961. It is mid-season in maturity, has strong straw and good resistance to wilt. Cree is susceptible to some types of flax rust now present in Saskatchewan.

ARNY—was developed in Minnesota and licensed for commercial distribution in Canada in 1961. It is mid-season in maturity, and has good straw length. It is resistant to wilt, but susceptible to some types of flax rust.

MARINE—was selected in North Dakota and licensed for commercial distribution in Canada in 1952. It is early in maturity and has good straw length. Marine is resistant to wilt, but susceptible to some types of flax rust.

Performance of Varieties

YIELDS

With the exception of a few districts, Cree yielded well in 1963. It performed particularly well in the eastern part of the province, and the west-central area. Redwood placed second on an average basis, with its best results in the southern and south-western districts, and reasonably good results in the central and west-central area. Norland and Arny yielded moderately well in the province as a whole. In the northern districts Arny produced its best results, while Norland produced relatively low yields. With the exception of Districts 3, 4 and 13 where relatively dry conditions prevailed, Marine was generally low on the yield scale.

Table No. 14—Average Yields in Bushels Per Acre
Summarized by Districts

Wheat Pool District	No. of Satisfactory Tests	Redwood	Norland	Cree	Arny	Marine	Necessary* Difference in Bushels
1	3	12.7	13.7	14.3	13.6	12.1	N.S.
2	5	15.1	14.3	14.5	13.7	14.7	.60
3	4	11.2	8.7	10.7	10.6	14.2	.56
4	4	12.7	11.9	11.2	11.4	13.8	.74
5	5	14.4	13.4	13.9	12.4	12.7	.68
6	5	15.8	15.8	16.5	14.8	15.6	.94
7	3	12.1	13.7	14.6	14.1	12.6	1.18
8	5	16.0	18.6	18.6	17.6	13.8	1.04
9	3	9.2	10.0	12.7	11.1	7.6	.87
10	4	22.7	21.9	22.8	21.4	19.0	1.23
11	5	16.9	16.2	17.8	15.5	16.2	.82
12	3	24.4	20.6	23.5	23.5	21.7	N.S.
13	2	6.3	5.9	6.3	6.1	6.7	N.S.
14	2	13.9	16.4	17.1	17.5	14.1	N.S.
15	4	14.2	12.6	15.5	15.8	13.7	1.19
16	3	19.6	16.9	21.8	20.0	18.2	N.S.

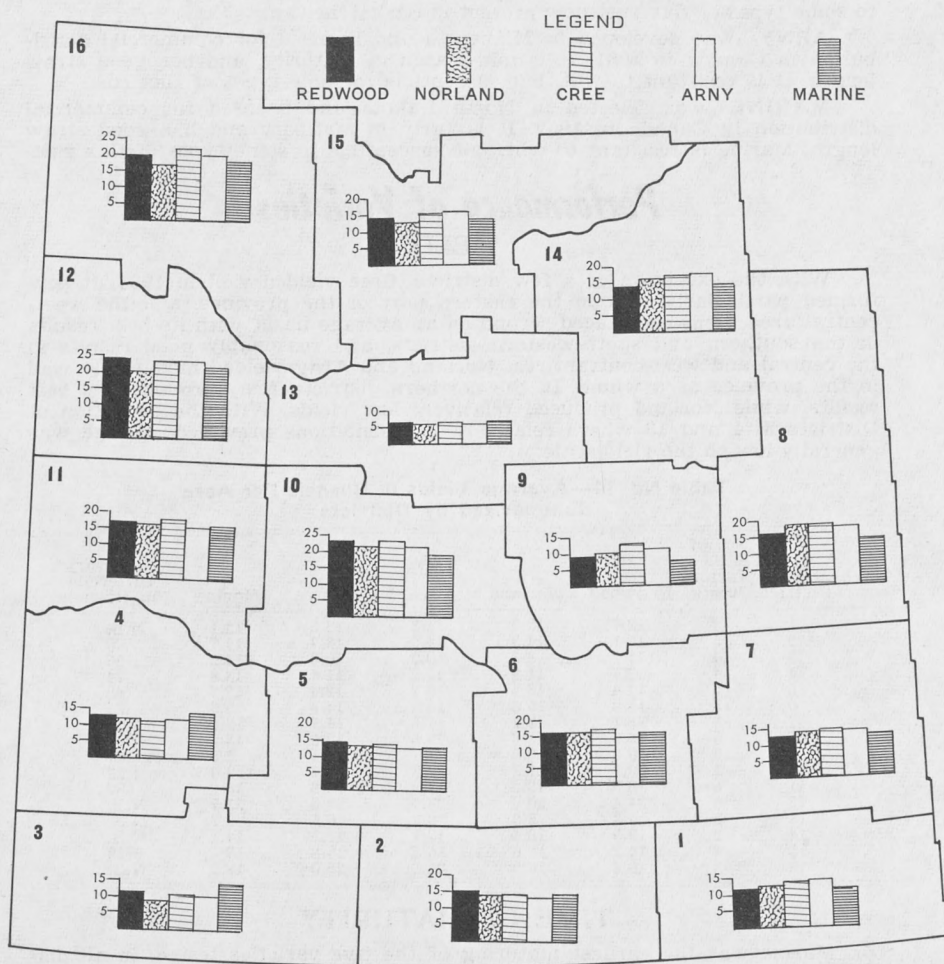
TIME OF MATURITY

Marine was the earliest maturing of the five varieties tested, in all districts. Cree was second earliest on an average basis, followed by Arny. Redwood and Norland were quite similar in time of maturity in most districts.

Table No. 15—Average Number of Days from Seeding to Ripening
Summarized by Districts

Wheat Pool District	Redwood	Norland	Cree	Army	Marine
1	100	100	98	100	97
2	96	92	94	88	85
3	93	95	95	94	88
4	100	100	98	99	93
5	76	74	79	78	70
6	107	100	111	104	88
7	102	102	101	100	95
8	100	99	97	99	96
9	—	—	—	—	—
10	101	103	100	102	95
11	106	106	100	103	96
12	111	111	112	112	109
13	96	96	94	95	93
14	97	97	96	97	92
15	96	98	98	98	91
16	95	99	95	96	92

GRAPH SHOWING FLAX YIELDS IN 1963



PLANT HEIGHT

In the case of flax, where lodging is not a problem, good length of straw is an advantage for ease of harvesting and under dry conditions a short-strawed variety can be difficult to harvest. For this reason, in the following discussion, long straw is considered an advantage. Army was reported to have the tallest straw in nearly all districts. On an average basis Norland was second tallest, followed by Cree. In most districts Redwood was several inches shorter than the previously mentioned varieties, while Marine was the shortest of the five varieties tested.

Table No. 16—Average Height of Plants in Inches
Summarized by Districts

Wheat Pool District	Redwood	Norland	Cree	Army	Marine
1	22	23	22	26	27
2	24	27	24	25	23
3	27	28	28	28	25
4	22	23	23	25	22
5	27	30	28	28	26
6	27	27	29	29	26
7	22	21	22	21	20
8	22	24	23	24	22
9	27	30	28	31	26
10	27	29	28	29	25
11	25	26	26	27	24
12	21	22	23	24	20
13	24	26	25	27	24
14	22	24	25	27	23
15	33	34	32	34	32
16	30	34	32	34	28

WEIGHT PER MEASURED BUSHEL

Since the bushel weight produced by the flax varieties now grown normally is considerably in excess of the legal weight required for the top grade of flax, this factor is less important as a comparative factor in flax, than in other grains. In 1963 all varieties produced good bushel weights and on an average basis they ranked in the following order: Army, Marine, Redwood, Cree, Norland.

Table No. 17—Average Weight Per Measured Bushel
Summarized by Districts

Wheat Pool District	Redwood	Norland	Cree	Army	Marine
1	55	54	55	56	56
2	55	54	55	55	55
3	55	54	55	55	55
4	56	55	56	56	56
5	55	54	55	56	56
6	56	55	55	56	56
7	54	54	54	55	55
8	56	55	56	56	57
9	56	55	55	56	56
10	56	56	56	56	56
11	55	55	55	56	56
12	56	57	57	57	56
13	56	55	55	56	56
14	56	56	56	57	56
15	56	55	56	56	56
16	56	56	56	57	57

COMMERCIAL GRADES

Examination of the table below will indicate that approximately 95 percent of the samples of Redwood, Cree, Army and Marine were eligible for the top flax grade, while almost 89 per cent of the samples of Norland also qualified for this grade. This indicates that grade has little bearing on the choice of a variety from among these five.

Table No. 18—Percentage of Commercial Grades by Varieties

Variety	1 CW %	2 CW %	3 CW %
Redwood	93.0	4.2	2.8
Norland	88.9	11.1	—
Cree	94.5	5.5	—
Army	94.4	4.2	1.4
Marine	95.8	4.2	—



Ralph Barlow prepares to report on the progress of his wheat test at Kyle. The border rows of barley which surround the test can be seen at right.



Richard Leuschen of Bruno was photographed early in the season when his wheat test had just emerged from the ground. The twelve inch spacing between rows is clearly evident.

Feed Comparison Tests

A total of 30 feed comparison tests were conducted in 1963. They were located throughout the province on the basis of two in each Wheat Pool district.

Description of the Project

With an increasing livestock population in the province, it is predictable that, in future, greater numbers of farmers will become interested in growing grain for livestock feed, rather than for sale. Under these circumstances farmers will be interested in producing a maximum amount of feed grain per acre.

In some parts of the province some quantities of mixed grains are seeded for feeding purposes. Such a practice eliminates the work of mixing grains prior to crushing for feed, and some have suggested in addition, that mixtures of grain produced heavier yields than the same grains seeded separately.

The feed comparison project was designed to compare wheat, oats, barley, an oat-barley mixture and a wheat-oat-barley mixture grown for feed purposes. The various grains were sown at rates equivalent to normal field seeding. Where two grains were seeded together, the rate for each was cut in half, and where three grains were seeded together, each rate was cut to one-third. By counting the kernels of grain in the threshed samples it was possible to see whether the mixed grains produced in the same proportions in which they were seeded.

Performance of Grains

Because of the small number of feed comparison tests it was considered desirable to group them for purposes of analysis in areas which had generally similar conditions. For this purpose the feed tests located in Wheat Pool districts 1, 6 and 7 (illustrated on page 7) were grouped together in the area described as the south-east; those in districts 2, 3, 4, 5, 10 and 11 were grouped in the area described as the west, central and south-west. The remaining tests located in districts 8, 9, 12, 13, 14, 15 and 16 were grouped in the area described as the north.

Calculation of Yields

It is a fairly simple matter to calculate the yields of various grains, and the mixtures, in terms of pounds of grain per acre. However the amount that can be digested by an animal varies from one grain to another, due to the presence of hull, bran, etc. Therefore in order to compare several grains, it is necessary to find the amount of each that can be used by the animal, in terms of pounds per acre. This digestible value can be determined by a series of chemical tests which indicate the "total digestible nutrients" in any sample. Then by relating this total digestible nutrient per pound, to the yield in pounds per acre, it is possible to calculate the pounds per acre of each grain or grain mixture that can be used by an animal.

Cattle and swine, having different digestive processes, do not obtain the same amount of "total digestible nutrients" from any given type of grain. Therefore in this report separate figures will be given, for cattle and swine, of available feed per acre. One additional important factor in livestock feeding is the protein content of the grain, which is indicated as "digestible crude protein". This protein actually is included in the total digestible nutrients. It is quoted separately in this report as a percentage of the total yield, to indicate whether it may be desirable to add a protein supplement to the grain when it is fed to either cattle or swine. Separate figures are given for cattle and swine because of their different digestive processes.

The subject of livestock feeding, including the use of supplements, cannot be adequately dealt with in this publication. However detailed information is available in a number of publications such as the following:

Guide to Farm Practice in Saskatchewan.

Beef Cattle Finishing—University of Saskatchewan.

Beef Cattle Nutrition—University of Saskatchewan.

Cattle Finishing in Alberta—University of Alberta.

Pig Feeding—Canada Department of Agriculture.

Yield in Pounds of Grain per Acre

In the west and south-west barley seeded alone, produced higher yields than the other grains. The oat-barley mixture ranked second on an average basis, and the wheat-oat-barley mixture ranked third. Oats seeded alone yielded slightly higher than did wheat seeded alone.

In the south-east the oat-barley mixture yielded the greatest amount of grain, followed by oats seeded alone. Barley produced slightly less than oats on an average in this area. The wheat-oat-barley mixture ranked fourth in terms of grain yield, while wheat seeded alone produced the lowest yield of grain.

In the north barley outyielded the others by a fairly substantial margin. On an average basis the oat-barley mixture ranked second, followed by the wheat-oat-barley mixture. Oats and wheat were reasonably similar in total yield in this area.

Table No. 19—Average Yield in Pounds of Grain Per Acre Summarized by Areas

Areas	Thatcher	Rodney	Husky	Oat-Barley	Wheat-
	Wheat	Oats	Barley	Mixture	Oat-Barley Mixture
West, Central and South-West (Pool Districts 2, 3, 4, 5, 10, 11)	1545	1575	3006	2420	2252
South-East (Pool Districts 1, 6, 7)	1726	2658	2495	2707	2427
North (Pool Districts 8, 9, 12, 13, 14, 15, 16)	1866	1921	3528	2904	2482

Yield in Terms of Total Digestible Nutrients

In both the northern area and the western, south-western areas barley produced the most feed nutrients per acre on average for both cattle and swine, while in the south-east barley ranked third for cattle and second for swine. The oat-barley mixture yielded well in terms of feed nutrients, ranking first in the south-east area and second in each of the other two areas, for both cattle and swine. With the exception of the south-east where oats seeded alone produced well, wheat or oats seeded alone were not outstanding in terms of total nutrients produced per acre.

Table No. 20—Feeding Value of Grains, in Terms of Average Pounds of Total Digestible Nutrients Produced Per Acre Summarized by Areas

Areas	Thatcher	Rodney	Husky	Oat-Barley	Wheat-
	Wheat	Oats	Barley	Mixture	Oat-Barley Mixture
FOR CATTLE					
West, Central and South-West (Pool Districts 2, 3, 4, 5, 10, 11)	1187	1055	2137	1693	1603
South-East (Pool Districts 1, 6, 7)	1336	1810	1761	1871	1717
North (Pool Districts 8, 9, 12, 13, 14, 15, 16)	1444	1298	2538	2039	1829
FOR SWINE					
West, Central and South-West (Pool Districts 2, 3, 4, 5, 10, 11)	1153	924	1965	1550	1477
South-East (Pool Districts 1, 6, 7)	1354	1652	1681	1766	1639
North (Pool Districts 8, 9, 12, 13, 14, 15, 16)	1468	1192	2474	1945	1766

Digestible Crude Protein

The content of protein is included in the calculation of total digestible nutrients, but it is dealt with here separately because of the interest which a livestock feeder would have in the advisability of supplementing a grain ration. The table below indicates the average protein content of the grains and mixtures by area of the province, in terms of digestible crude protein for cattle and for swine. Wheat contained the highest percentage of protein, followed by oats and then barley. The mixtures were intermediate in position, depending on the content of grains. There was considerable variation among

individual tests, due to rather widely varying percentages of the different grains in the threshed samples of the mixtures. Protein content of individual samples is shown in Table 27, Individual Test Results.

Table No. 21—Average Digestible Crude Protein in Per Cent, Summarized by Areas

Areas	Thatcher	Rodney	Husky	Oat-Barley	Wheat-
	Wheat	Oats	Barley	Mixture	Oat-Barley Mixture
FOR CATTLE					
West, Central and South-West (Pool Districts 2, 3, 4, 5, 10, 11)	14.2	11.4	10.0	11.8	12.8
South-East (Pool Districts 1, 6, 7)	11.7	9.8	9.1	9.0	9.8
North (Pool Districts 8, 9, 12, 13, 14, 15, 16)	11.3	9.4	8.6	8.8	10.5
FOR SWINE					
West, Central and South-West (Pool Districts 2, 3, 4, 5, 10, 11)	15.2	12.0	10.3	11.0	11.6
South-East (Pool Districts 1, 6, 7)	13.5	11.0	9.1	9.6	10.5
North (Pool Districts 8, 9, 12, 13, 14, 15, 16)	13.4	10.6	8.7	9.3	10.6

Time of Maturity

One of the difficulties with seeding mixtures of two or more grains is their difference in time of maturity. As indicated on the table below there is often a difference of several days in time of maturity of the varieties selected for this test, and if other varieties had been chosen, even greater differences might have been observed. This presents a problem in choosing the best time to harvest a mixture, in order to avoid losses due to shattering.

Table No. 22—Average Number of Days From Seeding to Ripening, Summarized by Areas

Areas	Thatcher	Rodney	Husky	Oat-Barley	Wheat-
	Wheat	Oats	Barley	Mixture	Oat-Barley Mixture
West, Central and South-West (Pool Districts 2, 3, 4, 5, 10, 11)	90	89	86	88	88
South-East (Pool Districts 1, 6, 7)	88	89	87	88	89
North (Pool Districts 8, 9, 12, 13, 14, 15, 16)	94	95	92	95	94

Plant Height

Plant height is not a vitally important factor in the selection of grains to be grown for feed grain purposes. In the case of mixtures it is useful that the various grains be reasonably similar in height for ease in harvesting. The table below indicates that the varieties chosen were adequate in this regard.

Table No. 23—Average Height of Plants in Inches, Summarized by Areas

Areas	Thatcher	Rodney	Husky	Oat-Barley	Wheat-
	Wheat	Oats	Barley	Mixture	Oat-Barley Mixture
West, Central and South-West (Pool Districts 2, 3, 4, 5, 10, 11)	35	34	33	34	34
South-East (Pool Districts 1, 6, 7)	32	33	22	29	32
North (Pool Districts 8, 9, 12, 13, 14, 15, 16)	35	35	32	34	34

Proportions of Grains in Mixtures

One of the reasons sometimes given for seeding mixed grains, is to save the labor of mixing them prior to grinding for feed. This is possible only if the grains can be seeded in a proportion which would yield the desired proportion of grains in the harvested mixture. In order to find whether or not

this can be effectively done, a comparison was made of the number of kernels seeded in each mixture, with the ratio of kernels harvested. The following table indicates the number of live seeds planted in each rod-row:

Grains	Number of Seeds		
	Wheat	Oats	Barley
Thatcher Wheat	429	—	—
Rodney Oats	—	545	—
Husky Barley	—	—	396
Oat-Barley Mixture	—	272	198
% of Mixture	—	57.9%	42.1%
Wheat-Oat-Barley Mixture	143	181	132
% of Mixture	31.4%	39.7%	28.9%

Following threshing the grain mixtures were separated and the proportion of different grains calculated by number of kernels and by weight. A considerable variation from the seeded proportions was observed. In the oat-barley mixture nearly every harvested sample contained more barley kernels than oats, indicating that barley is apparently the more aggressive. In the wheat-oat-barley samples also, the barley predominated in the threshed samples, and the percentage of wheat kernels was consistently lower than that which had been seeded. In both mixtures the exact ratio varied considerably from one test to another so it appears difficult to prepare a mixture of seed which will produce a given mixture of grains in the threshed sample. This fact presents a fairly serious difficulty in the use of mixed grains, since proper feeding practice requires a reasonably fixed ratio of one grain to another in the feed mixture. It would appear that the only way to be sure of getting such a mixture would be to grow the feed grains separately and mix them before they are prepared for feed.

Study of Protein and Rainfall

The relationship of protein content of a wheat crop to the amount of rainfall received during the growing period, has been the subject of considerable speculation and debate. Historically, a bountiful crop has usually been low in protein, while a year in which yields were low has generally been one in which average protein content was high. In an attempt to discover more about this relationship the threshed samples from 1962 wheat tests were analyzed under the direction of the Crop Science Department of the University of Saskatchewan.

The study indicates that the relationship may be more complicated than was first anticipated. Because of this and in view of the situation in 1963 in which one of the largest crops on record also produced amazingly high average protein content, a further study will be carried out, using the 1963 samples of Thatcher wheat.

Acknowledgements

A considerable number of agencies and individuals contributed in various ways to the success of the 1963 variety testing program. Special mention should be made of the following:

More than three hundred young men and women in all parts of the province who spent many hours during the summer watching the development of varieties in tests on their home farms.

Officials of the Crop Science Department of the University of Saskatchewan, including Dr. W. J. White, Dr. R. R. Knott, Dr. E. N. Larter, Dr. F. W. Sosulski, who gave valuable advice and assistance. Dr. J. M. Bell, of the Animal Science Department of the University of Saskatchewan.

Officials of the Experimental Farms at Indian Head, Melfort, Regina, Scott and Swift Current.

Table No. 24

INDIVIDUAL TEST RESULTS — WHEAT

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 9, headed, "Interpretation of Results."

IMPORTANT—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviation under "Grading Remarks," see page 9.

WHEAT POOL DISTRICT NUMBER 1

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LYNN SHAW, GAINSBOROUGH									
1	1	Canthatch	14.6	90	36	3.0	50	Fd.	S.
		Thatcher	11.9	90	36	3.0	46	Fd.	S.
		Selkirk	18.3	90	36	3.0	45	Fd.	S.
		Park	14.6	90	36	3.0	48	Fd.	S.
		Pembina	19.1	90	36	3.0	49	Fd.	S.
Necessary difference—4.91 bushels			Rainfall—May to August—15.43 inches						
LAURIE H. COLLINS, ALAMEDA									
1	3	Canthatch	23.7	—	29	2.0	61	2 Nor.	S.
		Thatcher	24.4	—	34	2.0	60	3 Nor.	S.
		Selkirk	29.6	—	30	2.0	60	2 Nor.	S.
		Park	22.4	—	31	2.0	61	2 Nor.	S.
		Pembina	26.3	—	30	2.0	60	2 Nor.	S.
Necessary difference—3.72 bushels			Rainfall—May to August—10.94 inches						
VERNON L. PENROD, LAMPMAN									
1	4	Canthatch	25.9	96	36	2.0	61	2 Nor.	S.
		Thatcher	26.5	96	36	2.0	59	3 Nor.	S.
		Selkirk	25.4	96	33	2.0	56	4 Nor.	S.
		Park	22.3	96	34	2.0	59	3 Nor.	S.
		Pembina	21.8	96	30	3.0	57	3 Nor.	S.
Necessary difference—2.17 bushels			Rainfall—May to August—23.38 inches						
LEONARD HAUKENESS, ESTEVAN									
1	5	Canthatch	17.5	88	30	3.0	56	4 Nor.	S.
		Thatcher	15.6	90	27	2.0	54	4 Sp.	S.
		Selkirk	20.3	90	29	1.0	53	4 Sp.	S.
		Park	16.5	84	27	5.0	55	4 Sp.	S.
		Pembina	19.5	86	30	3.0	54	4 Sp.	S.
Necessary difference—1.52 bushels			Rainfall—May to August—12.00 inches						
THOMAS CLAUSEN, BEAUBIER									
1	7	Canthatch	27.0	87	32	2.3	62	2 Nor.	T.
		Thatcher	26.0	87	33	2.3	61	2 Nor.	T.
		Selkirk	30.4	87	31	2.8	60	2 Nor.	T.
		Park	23.4	82	29	2.0	63	2 Nor.	T.
		Pembina	27.8	82	28	2.0	61	2 Nor.	T.
Necessary difference—1.76 bushels			Rainfall—May to August—12.72 inches						
HARVEY HALBERT, GRIFFIN									
1	8	Canthatch	18.2	85	25	3.3	62	2 Nor.	S.
		Thatcher	20.1	84	26	3.8	62	2 Nor.	S.
		Selkirk	18.8	83	24	3.8	60	2 Nor.	S.
		Park	19.5	84	25	3.5	63	1 Nor.	—
		Pembina	18.1	84	22	4.0	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—9.39 inches						

WHEAT POOL DISTRICT NUMBER 2

ELDON J. CARLSON, NEPTUNE									
2	1	Canthatch	16.4	—	—	—	56	4 Nor.	Bl.
		Thatcher	16.0	—	—	—	55	No. 5	Bl.
		Selkirk	15.4	—	—	—	54	No. 5	Bl.
		Cypress	13.9	—	—	—	58	3 Nor.	Bl.
		Rescue	11.9	—	—	—	56	4 Nor.	Bl.
Necessary difference—1.91 bushels			Rainfall—May to August—incomplete						

Wheat Pool District 2—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
KENNY BELL, MINTON									
2	2	Canthatch	9.3	106	—	—	56	4 Nor.	Bl.
		Thatcher	10.4	106	—	—	54	No. 5	Bl.
		Selkirk	9.4	106	—	—	51	No. 6	Bl.
		Cypress	11.2	106	—	—	60	3 Nor.	S., Bl.
		Rescue	9.3	106	—	—	58	3 Nor.	S., Bl.
Yield differences not significant					Rainfall—May to August—10.57 inches				
RONALD LAYNE, EAST POPLAR									
2	3	Canthatch	31.5	81	36	1.0	60	2 Nor.	S.
		Thatcher	33.1	81	37	1.3	60	2 Nor.	S.
		Selkirk	34.9	81	36	1.0	58	3 Nor.	S.
		Cypress	30.0	83	38	1.0	61	2 Nor.	S.
		Rescue	31.1	81	38	1.3	60	2 Nor.	S.
Necessary difference—3.22 bushels					Rainfall—May to August—14.19 inches				
MELVIN MONEA, KILLDEER									
2	5	Canthatch	40.4	89	42	1.0	61	2 Nor.	S.
		Thatcher	39.9	89	41	1.0	61	2 Nor.	S.
		Selkirk	40.4	90	42	1.0	59	2 Nor.	S.
		Cypress	32.6	91	46	4.0	62	2 Nor.	S.
		Rescue	34.0	91	46	4.0	60	2 Nor.	S.
Necessary difference—2.18 bushels					Rainfall—May to August—11.71 inches				
JOHN L. SEEBACH, LAFLECHE									
2	6	Canthatch	27.9	—	—	—	55	No. 5	S.
		Thatcher	29.2	—	—	—	54	No. 5	S.
		Selkirk	27.7	—	—	—	51	No. 6	S.
		Cypress	20.7	—	—	—	57	4 Nor.	S.
		Rescue	19.9	—	—	—	53	No. 5	S.
Necessary difference—1.85 bushels					Rainfall—May to August—10.87 inches				
GARRY KARST, ASSINIBOIA									
2	8	Canthatch	32.6	—	24	1.3	61	2 Nor.	S.
		Thatcher	32.2	—	24	1.0	60	2 Nor.	S.
		Selkirk	33.8	—	24	1.3	59	3 Nor.	S.
		Cypress	28.4	—	24	1.0	62	2 Nor.	S.
		Rescue	29.4	—	24	1.5	61	2 Nor.	S.
Necessary difference—2.52 bushels					Rainfall—May to August—incomplete				
GERALD PICHE, HARPTREE									
2	11	Canthatch	24.8	96	36	3.0	62	2 Nor.	Bl.
		Thatcher	24.7	96	36	4.5	61	2 Nor.	Bl.
		Selkirk	25.1	96	36	5.0	60	2 Nor.	Bl.
		Cypress	24.7	96	36	6.0	62	2 Nor.	Bl.
		Rescue	26.3	96	36	2.8	61	2 Nor.	Bl.
Yield differences not significant					Rainfall—May to August—14.19 inches				

WHEAT POOL DISTRICT NUMBER 3

ADELE RONCERAY, VAL MARIE									
3	2	Canthatch	19.3	—	24	2.0	58	3 Nor.	Bl.
		Thatcher	19.1	—	24	2.0	57	4 Nor.	Bl.
		Selkirk	18.1	—	24	2.0	55	4 Sp.	Bl.
		Cypress	17.5	—	24	2.0	60	2 Nor.	Bl.
		Rescue	17.1	—	26	2.0	58	3 Nor.	Bl.
Yield differences not significant				Rainfall—May to August—incomplete					
TREVOR ANDERSON, FRONTIER									
3	4	Canthatch	22.1	—	—	—	60	2 Nor.	S.
		Thatcher	20.3	—	—	—	60	2 Nor.	S.
		Selkirk	17.1	—	—	—	57	3 Nor.	S.
		Cypress	20.6	—	—	—	62	2 Nor.	S.
		Rescue	21.2	—	—	—	61	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—7.19 inches					
ELWOOD AMUNDSON, ROBSART									
3	5	Canthatch	16.2	—	25	1.0	61	2 Nor.	S.
		Thatcher	16.8	—	25	1.0	59	3 Nor.	S.
		Selkirk	16.7	—	26	1.8	58	3 Nor.	S.
		Cypress	15.1	—	25	1.3	63	2 Nor.	S.
		Rescue	14.2	—	25	1.0	62	2 Nor.	S.
Necessary difference—1.65 bushels				Rainfall—May to August—6.46 inches					

Wheat Pool District 3—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
PAUL BIDAUX, EASTEND									
3	7	Canthatch	25.6	—	—	—	59	3 Nor.	S.
		Thatcher	24.8	—	—	—	57	4 Nor.	S.
		Selkirk	23.2	—	—	—	56	4 Nor.	S.
		Cypress	22.4	—	—	—	61	2 Nor.	S.
		Rescue	21.9	—	—	—	59	3 Nor.	S.
Yield differences not significant						Rainfall—May to August—6.30 inches			
RAY RABAEY, SHAUNAVON									
3	8	Canthatch	32.1	93	33	1.0	59	3 Nor.	S., Bl.
		Thatcher	30.2	94	34	1.0	59	3 Nor.	S., Bl.
		Selkirk	32.1	94	33	1.0	58	3 Nor.	S., Bl.
		Cypress	27.2	95	35	1.0	61	2 Nor.	S.
		Rescue	27.6	94	34	2.0	59	3 Nor.	S., Bl.
Necessary difference—2.46 bushels			Rainfall—May to August—7.10 inches						
DAVID CALVIN, HAZENMORE									
3	10	Canthatch	11.5	91	25	1.5	58	3 Nor.	S.
		Thatcher	10.7	90	26	1.0	56	4 Nor.	S.
		Selkirk	10.9	90	24	1.0	54	No. 5	S.
		Cypress	8.6	91	24	1.3	61	2 Nor.	S.
		Rescue	8.0	90	22	1.3	61	2 Nor.	S.
Necessary difference—1.29 bushels			Rainfall—May to August—8.29 inches						
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
3	1	Richard Barker, Mankota							

WHEAT POOL DISTRICT NUMBER 4

GRAHAM CAMMELL, TOMPKINS									
4	1	Canthatch	26.1	103	28	1.3	64	2 Nor.	S.
		Thatcher	26.6	103	29	1.8	63	2 Nor.	S.
		Selkirk	24.3	101	27	3.0	61	2 Nor.	S.
		Cypress	25.7	103	31	1.0	64	2 Nor.	S.
		Rescue	24.5	103	29	1.0	63	2 Nor.	S.
Necessary difference—1.58 bushels					Rainfall—May to August—6.20 inches				
PETER KAMBEITZ, RICHMOUND									
4	7	Canthatch	9.6	—	—	—	57	4 Nor.	S.
		Thatcher	10.2	—	—	—	55	4 Sp.	S.
		Selkirk	11.0	—	—	—	53	No. 5	S.
		Cypress	10.0	—	—	—	58	3 Nor.	S.
		Rescue	8.4	—	—	—	55	4 Sp.	S.
Yield differences not significant					Rainfall—May to August—incomplete				
ROBERT H. STAPLE, SCEPTRE									
4	9	Canthatch	35.4	93	26	1.8	64	2 Nor.	S.
		Thatcher	36.5	93	26	1.3	64	2 Nor.	S.
		Selkirk	35.7	93	26	1.3	62	2 Nor.	S.
		Cypress	33.3	93	26	1.3	66	1 Nor.	—
		Rescue	33.7	93	26	1.3	65	1 Nor.	—
Necessary difference—2.14 bushels					Rainfall—May to August—6.48 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:									
4	2	Marvin Zollner, Golden Prairie							
4	3	Donald Campbell, Swift Current							

WHEAT POOL DISTRICT NUMBER 5

RICHARD SADLEMYER, MOSSBANK									
5	1	Canthatch	20.9	—	—	—	57	3 Nor.	Bl.
		Thatcher	18.6	—	—	—	56	4 Nor.	Bl.
		Selkirk	18.4	—	—	—	53	No. 5	Bl.
		Cypress	19.9	—	—	—	60	2 Nor.	Bl.
		Rescue	14.9	—	—	—	57	3 Nor.	Bl.
Yield differences not significant				Rainfall—May to August—11.40 inches					
KEITH STOLHANDSKE, SWIFT CURRENT									
5	4	Canthatch	18.4	86	35	1.0	56	4 Nor.	S.
		Thatcher	18.8	86	34	1.0	55	4 Sp.	S.
		Selkirk	18.2	85	33	1.0	51	No. 6	S.
		Cypress	20.0	87	34	1.0	57	3 Nor.	S.
		Rescue	15.9	87	35	1.0	56	4 Nor.	S.
Necessary differences not significant				Rainfall—May to August—9.87 inches					

Wheat Pool District 5—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
CARL EKDAHL, HODGEVILLE									
5	5	Canthatch	33.6	91	39	2.0	56	4 Nor.	S.
		Thatcher	33.9	91	40	2.0	55	4 Sp.	S.
		Selkirk	30.6	91	40	1.5	53	4 Sp.	S.
		Cypress	25.7	91	41	1.5	56	4 Nor.	S.
		Rescue	27.6	91	41	1.5	54	4 Sp.	S.
Necessary difference—4.04 bushels			Rainfall—May to August—13.50 inches						
CHRISTINE ANDERSON, CODERRE									
5	6	Canthatch	27.8	87	33	2.3	60	3 Nor.	S.
		Thatcher	27.1	87	33	2.8	59	3 Nor.	S.
		Selkirk	28.4	87	32	2.0	57	3 Nor.	S.
		Cypress	22.7	87	33	3.8	62	2 Nor.	S.
		Rescue	22.7	87	35	4.5	60	3 Nor.	S.
Necessary difference—1.27 bushels			Rainfall—May to August—11.87 inches						
JACKIE AITKEN, DARMODY									
5	8	Canthatch	34.4	87	40	3.0	60	3 Nor.	S.
		Thatcher	33.8	87	40	3.0	59	3 Nor.	S.
		Selkirk	34.8	87	42	1.3	57	4 Nor.	S.
		Cypress	29.4	87	40	4.3	61	3 Nor.	S.
		Rescue	28.5	87	40	6.8	60	3 Nor.	S.
Necessary difference—2.77 bushels			Rainfall—May to August—13.87 inches						
EVELYN NELSON, AQUADELL									
5	9	Canthatch	22.5	—	34	2.0	55	4 Sp.	S.
		Thatcher	24.5	—	34	2.0	55	4 Sp.	S.
		Selkirk	21.6	—	34	2.0	51	No. 6	S.
		Cypress	19.4	—	34	2.0	60	2 Nor.	S.
		Rescue	18.8	—	34	2.0	56	4 Nor.	S.
Yield differences not significant			Rainfall—May to August—11.45 inches						
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
5	3	Lynda Noble, Pambrun							

WHEAT POOL DISTRICT NUMBER 6

WILLIAM WILKE, YELLOW GRASS									
6	1	Canthatch	39.2	100	36	1.0	63	2 Nor.	S.
		Thatcher	39.0	100	36	1.0	61	2 Nor.	S.
		Selkirk	42.0	100	36	1.0	61	2 Nor.	S.
		Park	34.8	100	36	1.0	62	2 Nor.	S.
		Pembina	34.9	100	36	3.0	62	2 Nor.	S.
Part of test damaged—yields not included in district summary					Rainfall—May to August—16.16 inches				
BILL and ED SCHNITZLER, TRUAX									
6	4	Canthatch	34.4	97	30	3.0	61	2 Nor.	S.
		Thatcher	34.4	96	31	2.3	60	3 Nor.	S.
		Selkirk	35.6	95	31	2.5	59	3 Nor.	S.
		Park	34.7	96	30	3.3	61	2 Nor.	S.
		Pembina	36.6	96	28	4.0	60	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—14.32 inches				
SYLVIA HUNTLEY, MOOSE JAW									
6	5	Canthatch	31.7	86	31	3.0	61	2 Nor.	S.
		Thatcher	28.8	86	30	2.8	60	2 Nor.	S.
		Selkirk	30.3	86	29	2.3	59	2 Nor.	S.
		Park	29.6	86	29	3.8	60	2 Nor.	S.
		Pembina	26.9	84	29	4.3	61	2 Nor.	S.
Necessary difference—2.88 bushels					Rainfall—May to August—incomplete				
BRIAN and GARY MALLOW, JAMESON									
6	7	Canthatch	19.1	—	—	—	59	3 Nor.	S.
		Thatcher	16.9	—	—	—	58	3 Nor.	S.
		Selkirk	21.2	—	—	—	56	4 Nor.	S.
		Park	21.9	—	—	—	60	2 Nor.	S.
		Pembina	21.8	—	—	—	58	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—incomplete				
DARCY LIVINGSTON, SINTALUTA									
6	8	Canthatch	38.3	94	41	2.0	63	2 Nor.	S.
		Thatcher	40.9	93	41	2.0	63	2 Nor.	S.
		Selkirk	45.4	93	41	2.0	61	2 Nor.	S.
		Park	39.7	94	40	2.0	63	2 Nor.	S.
		Pembina	40.5	91	39	3.0	62	2 Nor.	S.
Necessary difference—3.64 bushels					Rainfall—May to August—11.70 inches				

Wheat Pool District 6—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RICHARD and DENNIS BULLIVANT, LORLIE									
6	9	Canthatch	23.9	93	35	7.0	62	2 Nor.	S.
		Thatcher	20.4	95	35	5.0	62	2 Nor.	S.
		Selkirk	20.4	90	37	7.0	60	2 Nor.	S.
		Park	21.8	96	34	8.0	61	2 Nor.	S.
		Pembina	23.6	94	35	7.0	62	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—11.85 inches				

WHEAT POOL DISTRICT NUMBER 7

MARK BATEMAN, RED JACKET									
7	2	Canthatch	39.7	—	38	2.0	63	2 Nor.	S.
		Thatcher	39.7	—	40	1.0	63	2 Nor.	S.
		Selkirk	45.2	—	38	2.0	61	2 Nor.	S.
		Park	36.9	—	40	2.0	63	2 Nor.	S.
		Pembina	39.7	—	36	1.0	63	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—14.77 inches				

LYLE GLYDON, KIPLING									
7	4	Canthatch	30.1	91	33	1.8	61	2 Nor.	S.
		Thatcher	31.2	91	33	1.3	60	2 Nor.	S.
		Selkirk	34.2	90	34	2.3	59	2 Nor.	S.
		Park	31.1	91	32	2.5	61	2 Nor.	S.
		Pembina	30.4	91	31	1.8	61	2 Nor.	S.
Necessary difference—2.40 bushels					Rainfall—May to August—15.38 inches				

DAVID JOHNSTONE and HERB REICH, FILLMORE									
7	5	Canthatch	24.3	—	—	—	60	3 Nor.	S.
		Thatcher	23.3	—	—	—	59	3 Nor.	S.
		Selkirk	22.4	—	—	—	55	4 Sp.	S.
		Park	23.3	—	—	—	60	2 Nor.	S.
		Pembina	23.1	—	—	—	59	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—incomplete				

BILL HASSLER, Jr., WINTHORST									
7	6	Canthatch	26.9	—	29	3.0	60	2 Nor.	S.
		Thatcher	26.1	—	29	3.0	58	3 Nor.	S.
		Selkirk	31.9	—	32	1.0	58	3 Nor.	S.
		Park	26.7	—	28	3.0	60	2 Nor.	S.
		Pembina	27.7	—	29	3.0	60	2 Nor.	S.
Necessary difference—2.78 bushels					Rainfall—May to August—14.12 inches				

EDWIN WYATT, BROADVIEW									
7	7	Canthatch	27.7	—	32	2.3	60	3 Nor.	S.
		Thatcher	27.0	—	31	2.0	59	3 Nor.	S.
		Selkirk	29.8	—	30	1.0	58	3 Nor.	S.
		Park	25.7	—	30	2.0	61	2 Nor.	S.
		Pembina	27.8	—	27	2.0	59	3 Nor.	S.
Necessary difference—1.85 bushels					Rainfall—May to August—12.43 inches				

KENNETH A. REAVIE, ROCANVILLE									
7	8	Canthatch	24.0	96	30	1.3	63	2 Nor.	Bl.
		Thatcher	23.3	97	31	2.0	62	2 Nor.	Bl.
		Selkirk	25.2	97	29	1.8	60	2 Nor.	S.
		Park	22.9	97	29	1.8	62	2 Nor.	S.
		Pembina	22.3	97	28	1.5	61	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—16.51 inches				

GLEN PASK, ATWATER									
7	10	Canthatch	49.5	96	37	2.5	64	2 Nor.	S.
		Thatcher	48.3	95	39	2.3	63	2 Nor.	S.
		Selkirk	49.2	96	38	3.0	61	2 Nor.	S.
		Park	43.7	94	35	1.8	63	2 Nor.	S.
		Pembina	47.7	94	34	4.0	63	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—14.07 inches				

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

7 1 Dennis Fisk, Kelso

WHEAT POOL DISTRICT NUMBER 8

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DONALD PURICH, WROXTON									
8	1	Canthatch	52.2	98	39	1.3	64	1 Nor.	—
		Thatcher	50.0	96	41	1.3	64	1 Nor.	—
		Selkirk	53.4	94	39	1.0	61	2 Nor.	S.
		Park	45.0	94	38	2.0	63	1 Nor.	—
		Pembina	49.6	95	38	1.0	63	1 Nor.	—
Necessary difference—2.99 bushels			Rainfall—May to August—12.69 inches						

JAMES TOMKINS, SALTCOATS									
8	2	Canthatch	38.5	—	35	3.0	62	2 Nor.	S.
		Thatcher	33.6	—	36	3.0	60	2 Nor.	S.
		Selkirk	40.3	—	37	2.3	59	2 Nor.	S.
		Park	36.2	—	34	3.3	62	2 Nor.	S.
		Pembina	40.1	—	35	4.0	62	2 Nor.	S.
Necessary difference—3.70 bushels			Rainfall—May to August—15.76 inches						

MORRIS YANUSH, GOODEVE									
8	3	Canthatch	—	92	36	3.0	60	2 Nor.	Bl.
		Thatcher	—	92	37	1.0	60	2 Nor.	Bl.
		Selkirk	—	91	35	2.0	59	2 Nor.	Bl.
		Park	—	87	32	2.0	60	2 Nor.	Bl.
		Pembina	—	91	36	5.0	60	2 Nor.	Bl.
Incorrect seeding—yields not reliable			Rainfall—May to August—14.03 inches						

GERALD FENSKE, EBENEZER									
8	4	Canthatch	26.0	—	—	—	61	2 Nor.	S.
		Thatcher	27.2	—	—	—	61	2 Nor.	S.
		Selkirk	31.8	—	—	—	60	2 Nor.	S.
		Park	28.1	—	—	—	61	2 Nor.	S.
		Pembina	30.4	—	—	—	61	2 Nor.	S.
Necessary difference—3.67 bushels			Rainfall—May to August—incomplete						

MARTIN WLOCK, WILLOWBROOK									
8	4	Canthatch	48.3	—	33	2.3	63	1 Nor.	—
		Thatcher	50.2	—	37	2.3	63	1 Nor.	—
		Selkirk	55.6	—	36	1.3	61	2 Nor.	S.
		Park	45.3	—	35	2.0	63	1 Nor.	—
		Pembina	51.6	—	36	4.5	64	1 Nor.	—
Necessary difference—3.62 bushels			Rainfall—May to August—11.19 inches						

JUDY KINDRAT, HAMTON									
8	5	Canthatch	34.4	88	31	1.0	62	2 Nor.	S.
		Thatcher	32.6	88	32	1.0	62	2 Nor.	S.
		Selkirk	38.3	87	30	2.0	60	2 Nor.	S.
		Park	31.0	85	28	2.3	62	2 Nor.	S.
		Pembina	34.5	86	27	1.3	62	2 Nor.	S.
Necessary difference—3.76 bushels			Rainfall—May to August—10.37 inches						

KEN WASYLYSHEN, GORLITZ									
8	6	Canthatch	33.4	102	32	1.8	63	2 Nor.	S.
		Thatcher	36.0	102	32	1.3	63	2 Nor.	S.
		Selkirk	32.9	102	31	1.0	62	2 Nor.	S.
		Park	34.0	101	32	3.0	63	2 Nor.	S.
		Pembina	31.2	97	30	2.0	63	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—8.27 inches						

CATHY MITCHELL, PREECEVILLE									
8	8	Canthatch	43.7	97	30	2.0	65	1 Nor.	—
		Thatcher	43.6	96	33	1.0	64	1 Nor.	—
		Selkirk	48.8	97	32	2.0	63	1 Nor.	—
		Park	41.3	95	31	3.0	64	1 Nor.	—
		Pembina	41.4	94	30	2.0	64	1 Nor.	—
Necessary difference—4.59 bushels			Rainfall—May to August—9.73 inches						

JERRY GROMNISKY, STURGIS									
8	8	Canthatch	31.6	—	—	—	61	2 Nor.	S.
		Thatcher	33.7	—	—	—	61	2 Nor.	S.
		Selkirk	36.3	—	—	—	61	2 Nor.	S.
		Park	31.1	—	—	—	62	2 Nor.	S.
		Pembina	32.6	—	—	—	61	2 Nor.	S.
Necessary difference—2.22 bushels			Rainfall—May to August—incomplete						

Wheat Pool District 8—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
NED HARRY KOSTENIUK, DANBURY									
8	9	Canthatch	35.4	100	38	2.3	64	1 Nor.	—
		Thatcher	35.3	100	38	2.0	64	1 Nor.	—
		Selkirk	37.4	99	38	2.0	63	1 Nor.	—
		Park	33.8	99	38	1.5	64	1 Nor.	—
		Pembina	36.9	99	37	2.3	63	1 Nor.	—
Yield differences—not significant					Rainfall—May to August—7.63 inches				

FRANK M. HRABCHAK, PELLY									
8	10	Canthatch	—	—	—	—	62	2 Nor.	S.
		Thatcher	—	—	—	—	61	2 Nor.	S.
		Selkirk	—	—	—	—	60	2 Nor.	S.
		Park	—	—	—	—	62	2 Nor.	S.
		Pembina	—	—	—	—	61	2 Nor.	S.
Part of test damaged by grasshoppers—yields not reliable					Rainfall—May to August—9.23 inches				

JOEY ROTZIEN, HUDSON BAY									
8	11	Canthatch	36.4	103	38	3.0	61	2 Nor.	S.
		Thatcher	42.2	102	40	3.3	61	2 Nor.	S.
		Selkirk	46.5	102	37	2.0	59	2 Nor.	S.
		Park	34.0	103	37	2.5	60	2 Nor.	S.
		Pembina	44.8	102	38	2.5	61	2 Nor.	S.
Necessary difference—8.12 bushels					Rainfall—May to August—9.27 inches				

BLANCHE L. CANNING, HUDSON BAY									
8	11	Canthatch	39.2	92	38	3.0	62	2 Nor.	Bl.
		Thatcher	41.4	90	40	2.0	61	2 Nor.	Bl.
		Selkirk	44.3	92	38	1.0	60	2 Nor.	Bl.
		Park	40.6	89	38	5.0	61	2 Nor.	Bl.
		Pembina	40.1	88	37	4.0	60	2 Nor.	Bl.
Necessary difference—2.99 bushels					Rainfall—May to August—8.95 inches				

Test discarded on account of damage by flooding, pests, hail, drought or other causes:
 8 6 Myles Zawislak, Amsterdam

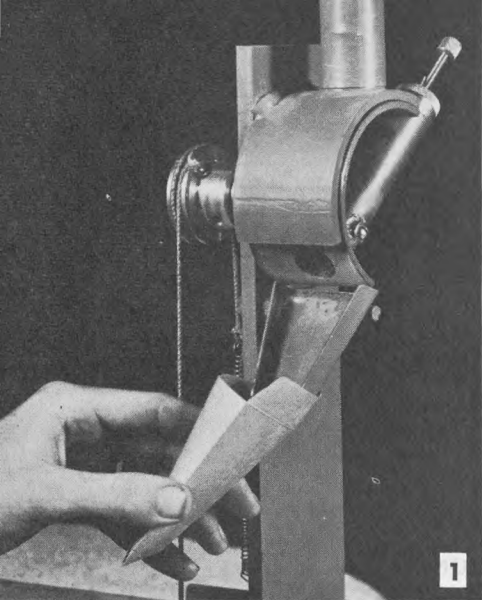
WHEAT POOL DISTRICT NUMBER 9

LAWRENCE JANKOSKI, ITUNA									
9	1	Canthatch	34.6	—	—	7.0	60	2 Nor.	Bl.
		Thatcher	34.9	—	—	5.0	60	2 Nor.	Bl.
		Selkirk	38.1	—	—	3.0	59	2 Nor.	Bl.
		Park	33.0	—	—	4.0	59	2 Nor.	Bl.
		Pembina	35.0	—	—	3.0	60	2 Nor.	Bl.
Necessary difference—2.98 bushels					Rainfall—May to August—13.46 inches				

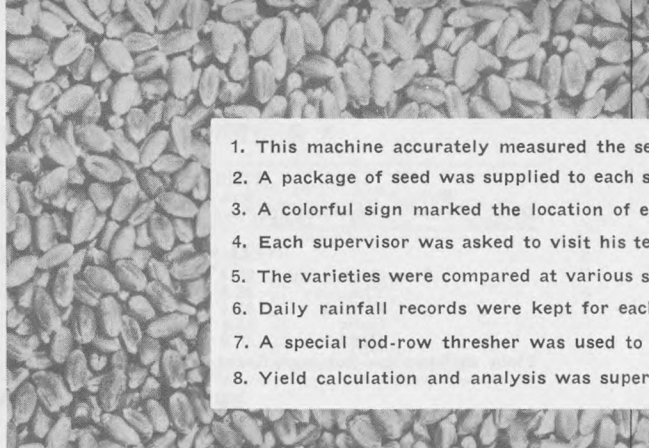
ARDEN H. START, LESTOCK									
9	3	Canthatch	49.7	101	39	6.5	60	2 Nor.	Bl.
		Thatcher	50.5	102	37	6.3	59	2 Nor.	Bl.
		Selkirk	50.6	102	39	3.0	58	2 Nor.	Bl.
		Park	40.9	102	38	5.3	60	2 Nor.	Bl.
		Pembina	50.5	102	38	7.5	60	2 Nor.	Bl.
Yield differences not significant					Rainfall—May to August—10.93 inches				

WARREN FISHER, GIBBS									
9	4	Canthatch	32.6	98	—	—	60	2 Nor.	Bl.
		Thatcher	29.1	98	—	—	58	3 Nor.	Bl.
		Selkirk	35.1	98	—	—	57	3 Nor.	Bl.
		Park	29.8	98	—	—	59	2 Nor.	Bl.
		Pembina	33.1	98	—	—	59	2 Nor.	Bl.
Yield differences not significant					Rainfall—May to August—17.46 inches				

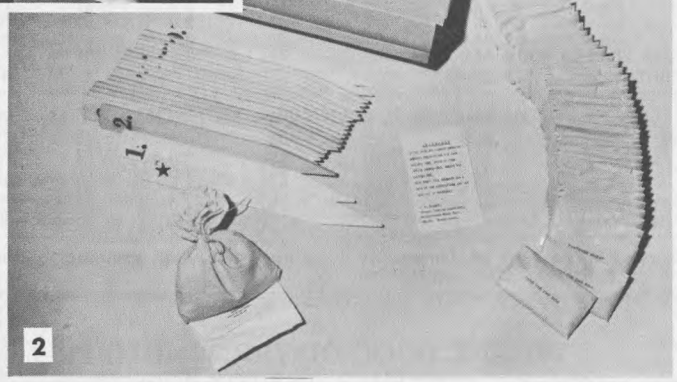
CLARENCE KONSCHUH, NOKOMIS									
9	6	Canthatch	36.3	95	32	3.5	63	2 Nor.	S.
		Thatcher	35.8	95	31	2.3	62	2 Nor.	S.
		Selkirk	36.1	95	32	1.8	60	2 Nor.	S.
		Park	31.6	95	31	3.8	61	2 Nor.	S.
		Pembina	32.6	95	31	3.8	62	2 Nor.	S.
Necessary difference—2.06 bushels					Rainfall—May to August—7.75 inches				



1



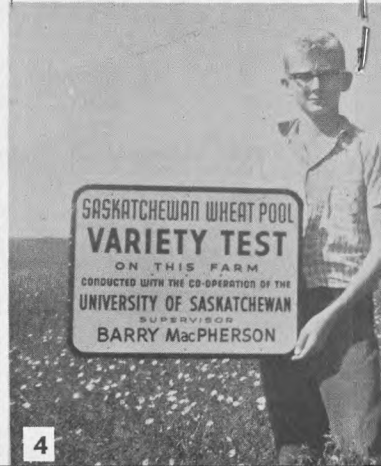
1. This machine accurately measured the seed
2. A package of seed was supplied to each
3. A colorful sign marked the location of e
4. Each supervisor was asked to visit his te
5. The varieties were compared at various s
6. Daily rainfall records were kept for each
7. A special rod-row thresher was used to
8. Yield calculation and analysis was super



2

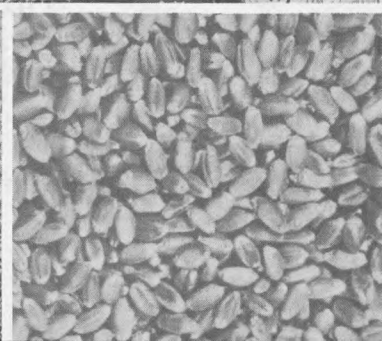


3



4

eed for each row.
supervisor,
ach test.
st frequently.
tages of growth.
h test.
thresh the grain.
vised by A. D. McLeod.



Wheat Pool District 9—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ERIC OLAFSON, DAFOE									
9	8	Canthatch	31.4	—	—	—	62	2 Nor.	Bl.
		Thatcher	32.2	—	—	—	60	2 Nor.	Bl.
		Selkirk	35.6	—	—	—	59	2 Nor.	Bl.
		Park	29.7	—	—	—	61	2 Nor.	Bl.
		Pembina	30.8	—	—	—	61	2 Nor.	Bl.
Necessary difference—1.93 bushels				Rainfall—May to August—incomplete					

WILMAR KUSEY, WISHART									
9	9	Canthatch	47.9	103	32	2.0	63	2 Nor.	Bl.
		Thatcher	45.0	104	36	1.5	61	2 Nor.	Bl.
		Selkirk	47.8	104	35	1.8	59	2 Nor.	Bl.
		Park	43.4	103	35	1.8	60	2 Nor.	Bl.
		Pembina	48.6	104	35	2.0	61	2 Nor.	Bl.
Yield differences not significant				Rainfall—May to August—10.54 inches					

WHEAT POOL DISTRICT NUMBER 10

RONALD ZIEGLER, DILKE									
10	1	Canthatch	32.0	107	40	4.0	60	2 Nor.	S.
		Thatcher	33.1	107	40	2.0	58	3 Nor.	S.
		Selkirk	34.7	107	40	4.0	57	3 Nor.	S.
		Cypress	28.0	107	40	2.0	59	3 Nor.	S.
		Rescue	24.0	107	40	4.0	56	4 Nor.	S.
Necessary difference—4.32 bushels				Rainfall—May to August—16.77 inches					

DAVID LEE CROWLEY, LAWSON									
10	2	Canthatch	24.8	—	32	—	58	3 Nor.	S.
		Thatcher	27.7	—	32	—	58	3 Nor.	S.
		Selkirk	24.8	—	32	—	57	3 Nor.	S.
		Cypress	25.3	—	32	—	62	2 Nor.	S.
		Rescue	25.4	—	32	—	61	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—11.41 inches					

ROBERT HAUGEN, ARDATH									
10	5	Canthatch	30.6	89	24	3.0	62	2 Nor.	Bl.
		Thatcher	28.9	89	24	3.8	60	2 Nor.	Bl.
		Selkirk	30.0	90	24	2.8	59	2 Nor.	Bl.
		Cypress	25.1	89	24	2.8	62	2 Nor.	Bl.
		Rescue	27.5	88	24	2.3	61	2 Nor.	Bl.
Necessary difference—2.33 bushels				Rainfall—May to August—9.27 inches					

KENNETH KEEN, LOREBURN									
10	6	Canthatch	23.4	101	36	2.3	55	No. 5	Bl.
		Thatcher	24.5	101	35	1.8	54	No. 5	Bl.
		Selkirk	23.7	101	35	1.8	53	No. 5	Bl.
		Cypress	20.1	101	37	3.3	56	4 Nor.	Bl.
		Rescue	20.8	101	33	4.3	54	No. 5	Bl.
Necessary difference—2.62 bushels				Rainfall—May to August—7.47 inches					

ALLEN W. PIEPER, SIMPSON									
10	8	Canthatch	40.6	104	37	4.0	59	2 Nor.	Bl.
		Thatcher	40.7	104	37	4.0	58	3 Nor.	Bl.
		Selkirk	39.7	104	37	3.0	55	No. 5	Bl.
		Cypress	30.8	105	37	6.0	58	3 Nor.	Bl.
		Rescue	30.4	105	38	5.8	57	4 Nor.	Bl.
Necessary difference—2.10 bushels				Rainfall—May to August—12.56 inches					

CHARLES SCHWANBECK, HANLEY									
10	9	Canthatch	25.3	94	35	4.0	60	2 Nor.	Bl., S.
		Thatcher	26.4	94	35	4.0	58	3 Nor.	Bl., S.
		Selkirk	24.4	94	36	2.8	58	3 Nor.	Bl.
		Cypress	25.3	94	44	4.0	60	2 Nor.	Bl.
		Rescue	23.4	94	35	4.0	59	2 Nor.	Bl.
Yield differences not significant				Rainfall—May to August—9.48 inches					

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

10 4 Garry Dutertre, Dinsmore

WHEAT POOL DISTRICT NUMBER 11

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RALPH BARLOW, KYLE									
11	1	Canthatch	30.9	95	32	2.0	63	2 Nor.	Bl.
		Thatcher	30.6	95	33	2.0	62	2 Nor.	Bl.
		Selkirk	28.1	94	35	1.0	60	2 Nor.	Bl.
		Park	29.9	97	31	6.0	63	2 Nor.	Bl.
		Pembina	28.5	96	30	6.0	60	2 Nor.	Bl.
Necessary difference—1.79 bushels			Rainfall—May to August—5.61 inches						
N. JACK WALKER, GREENAN									
11	2	Canthatch	25.2	—	—	—	59	3 Nor.	S.
		Thatcher	24.0	—	—	—	58	3 Nor.	S.
		Selkirk	24.0	—	—	—	57	3 Nor.	S.
		Park	23.5	—	—	—	61	2 Nor.	S.
		Pembina	24.1	—	—	—	58	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—6.00 inches						
KAREN and HELEN OSTEVIK, ESTON									
11	3	Canthatch	38.0	92	28	1.3	64	2 Nor.	S.
		Thatcher	39.6	92	31	1.5	64	2 Nor.	S.
		Selkirk	35.9	93	28	1.0	62	2 Nor.	S.
		Park	40.1	92	28	1.8	64	2 Nor.	S.
		Pembina	35.0	93	27	2.0	63	2 Nor.	S.
Necessary difference—2.67 bushels			Rainfall—May to August—incomplete						
LORRAINE J. LONGMIRE, KINDERSLEY									
11	6	Canthatch	52.8	95	41	2.3	64	1 Nor.	—
		Thatcher	53.6	95	41	1.5	64	1 Nor.	—
		Selkirk	50.2	96	42	1.3	63	1 Nor.	—
		Park	52.1	94	39	2.5	65	1 Nor.	—
		Pembina	50.8	95	38	3.0	64	1 Nor.	—
Yield differences not significant			Rainfall—May to August—8.45 inches						
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
11	9	Bonnie and Verna Whitfield, Beaufield							

WHEAT POOL DISTRICT NUMBER 12

DWIGHT MILLER, SPRINGWATER									
12	1	Canthatch	24.0	—	—	—	64	1 Nor.	—
		Thatcher	22.6	—	—	—	63	2 Nor.	S.
		Selkirk	21.8	—	—	—	62	2 Nor.	S.
		Park	22.1	—	—	—	64	2 Nor.	Bl.
		Pembina	20.0	—	—	—	63	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—incomplete						
DONALD BECKER, SPINNEY HILL									
12	2	Canthatch	31.6	101	33	2.3	64	1 Nor.	S.
		Thatcher	32.7	101	33	1.8	63	2 Nor.	S.
		Selkirk	38.8	102	34	1.0	62	2 Nor.	S.
		Park	34.1	100	32	2.0	63	2 Nor.	S.
		Pembina	31.9	101	31	3.0	63	2 Nor.	S.
Necessary difference—2.55 bushels			Rainfall—May to August—10.70 inches						
LESLIE KNOLL, LANDIS									
12	3	Canthatch	28.3	90	34	3.5	54	4 Sp.	S.
		Thatcher	28.7	90	34	3.8	53	No. 5	S.
		Selkirk	28.8	90	36	4.0	51	No. 6	S.
		Park	28.2	90	34	3.8	53	No. 5	S.
		Pembina	30.9	90	33	5.0	53	No. 5	S.
Yield differences not significant			Rainfall—May to August—8.81 inches						
LAWRENCE HAAS, LANDIS									
12	3	Canthatch	40.2	—	33	3.0	60	2 Nor.	Bl.
		Thatcher	36.8	—	31	2.3	59	3 Nor.	Bl.
		Selkirk	37.0	—	33	2.3	59	3 Nor.	Bl.
		Park	36.2	—	31	3.3	60	2 Nor.	Bl.
		Pembina	35.7	—	30	3.3	60	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—9.04 inches						
SHARON FLUNEY, TRAMPING LAKE									
12	4	Canthatch	—	—	43	1.5	59	3 Nor.	S.
		Thatcher	—	—	46	1.5	58	3 Nor.	S.
		Selkirk	—	—	38	2.0	58	3 Nor.	S.
		Park	—	—	37	2.0	60	2 Nor.	S.
		Pembina	—	—	37	2.3	59	3 Nor.	S.
Test damaged by hail—yields not reliable			Rainfall—May to August—10.89 inches						

Wheat Pool District 12—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ERWIN SIEBEN, SALVADOR									
12	5	Canthatch	52.5	96	39	1.0	63	2 Nor.	Bl.
		Thatcher	53.7	96	37	1.0	61	2 Nor.	Bl.
		Selkirk	58.6	96	39	1.0	61	2 Nor.	Bl.
		Park	48.3	96	35	1.0	61	2 Nor.	Bl.
		Pembina	52.6	96	35	1.0	61	2 Nor.	Bl.
Necessary difference—4.61 bushels			Rainfall—May to August—13.23 inches						
MICHAEL C. GARTNER, PRIMATE									
12	6	Canthatch	53.3	113	37	3.0	62	2 Nor.	S.
		Thatcher	48.4	113	38	2.3	61	2 Nor.	S.
		Selkirk	49.5	114	37	2.3	60	2 Nor.	S.
		Park	44.5	112	36	2.8	60	2 Nor.	S.
		Pembina	48.3	114	36	2.0	62	2 Nor.	S.
Necessary difference—2.50 bushels			Rainfall—May to August—13.59 inches						
GEORGE A. RESCHNY, EVESHAM									
12	6	Canthatch	37.9	—	36	7.0	63	2 Nor.	S.
		Thatcher	39.4	—	36	7.0	63	2 Nor.	S.
		Selkirk	36.0	—	36	8.0	61	2 Nor.	S.
		Park	32.6	—	34	6.0	62	2 Nor.	S.
		Pembina	30.6	—	35	5.3	63	2 Nor.	S.
Necessary difference—2.71 bushels			Rainfall—May to August—13.38 inches						
RONALD WALKER, SENLAC									
12	7	Canthatch	42.3	—	—	—	60	2 Nor.	Bl.
		Thatcher	43.6	—	—	—	59	2 Nor.	Bl.
		Selkirk	45.1	—	—	—	59	2 Nor.	Bl.
		Park	40.0	—	—	—	60	2 Nor.	Bl.
		Pembina	41.5	—	—	—	60	2 Nor.	Bl.
Necessary difference—2.43 bushels			Rainfall—May to August—17.25 inches						
MALCOLM BOWKER, UNITY									
12	7	Canthatch	60.1	105	37	3.0	63	2 Nor.	S.
		Thatcher	55.3	105	36	3.0	62	2 Nor.	S.
		Selkirk	69.5	107	37	2.0	59	2 Nor.	S.
		Park	57.7	102	34	3.0	62	2 Nor.	S.
		Pembina	55.2	105	33	2.0	62	2 Nor.	S.
Necessary difference—4.90 bushels			Rainfall—May to August—12.59 inches						
EDNA DEGENSTIEN, BATTLEFORD									
12	10	Canthatch	43.2	92	41	1.5	63	2 Nor.	S.
		Thatcher	43.3	92	41	1.8	62	2 Nor.	S.
		Selkirk	52.4	91	40	1.0	62	2 Nor.	S.
		Park	40.9	91	41	2.0	63	2 Nor.	S.
		Pembina	43.3	91	36	4.0	63	2 Nor.	S.
Necessary difference—3.15 bushels			Rainfall—May to August—12.98 inches						
GARRY COTE, DELMAS									
12	10	Canthatch	37.4	82	35	2.0	59	3 Nor.	S., Bl.
		Thatcher	34.9	82	33	2.0	59	3 Nor.	S., Bl.
		Selkirk	32.7	82	36	2.0	57	3 Nor.	S., Bl.
		Park	31.5	81	35	2.0	58	3 Nor.	S., Bl.
		Pembina	28.8	82	33	8.0	59	3 Nor.	S., Bl.
Yield differences not significant			Rainfall—May to August—10.77 inches						
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
12	8	Barry Robinson, Lone Rock							

WHEAT POOL DISTRICT NUMBER 13

BETTY and JAMES HIEBERT, BAY TRAIL									
13	1	Canthatch	42.6	95	39	1.0	64	1 Nor.	—
		Thatcher	43.6	96	39	1.0	65	2 Nor.	S.
		Selkirk	42.9	95	39	1.0	62	2 Nor.	S.
		Park	41.9	95	39	1.0	63	2 Nor.	S.
		Pembina	39.3	96	37	1.0	63	2 Nor.	S.
Necessary difference—2.62 bushels				Rainfall—May to August—10.23 inches					
WAYNE A. JOHNS, ZELMA									
13	2	Canthatch	44.6	97	38	1.5	62	2 Nor.	S.
		Thatcher	42.8	98	38	1.3	61	2 Nor.	S.
		Selkirk	45.3	98	37	1.8	59	2 Nor.	S.
		Park	44.5	95	37	1.3	63	2 Nor.	S.
		Pembina	45.3	97	37	1.3	61	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—12.59 inches					

Wheat Pool District 13—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
BRIAN RICHERT, YOUNG									
13	2	Canthatch	26.9	93	30	5.0	64	2 Nor.	S.
		Thatcher	28.1	93	32	5.0	62	2 Nor.	S.
		Selkirk	28.6	93	29	5.0	61	2 Nor.	S.
		Park	27.8	92	29	5.0	63	2 Nor.	S.
		Pembina	31.4	95	28	5.0	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—11.40 inches						
JAMES SCHMIDT, ALLAN									
13	3	Canthatch	9.8	96	32	8.8	53	No. 5	Bl., S.
		Thatcher	8.7	94	32	6.5	52	No. 6	Bl., S.
		Selkirk	8.9	97	32	7.3	49	Fd.	Bl., S.
		Park	9.8	96	32	8.0	53	No. 5	Bl., S.
		Pembina	8.1	95	32	7.5	52	No. 6	Bl., S.
Yield differences not significant			Rainfall—May to August—8.11 inches						
BARRY HODGE, ELSTOW									
13	4	Canthatch	31.6	93	37	4.0	61	2 Nor.	S.
		Thatcher	34.0	93	36	4.0	60	3 Nor.	S.
		Selkirk	35.9	93	36	4.0	59	3 Nor.	S.
		Park	32.4	93	36	4.0	61	2 Nor.	S.
		Pembina	29.9	93	35	4.3	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—10.90 inches						
GORDON RUZESKY, LANGHAM									
13	6	Canthatch	24.1	94	31	1.0	61	3 Nor.	S.
		Thatcher	26.8	94	30	1.0	62	2 Nor.	S.
		Selkirk	27.9	97	32	2.0	59	3 Nor.	S.
		Park	26.1	94	31	1.0	62	2 Nor.	S.
		Pembina	23.9	96	32	1.8	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—12.57 inches						
FRANCES CHAPPLE, GRANDORA									
13	6	Canthatch	25.0	105	26	2.0	61	2 Nor.	S.
		Thatcher	26.5	106	25	2.0	60	3 Nor.	S.
		Selkirk	27.1	105	27	1.5	58	3 Nor.	S.
		Park	23.1	105	26	2.0	62	2 Nor.	S.
		Pembina	20.0	104	24	1.5	60	3 Nor.	S.
Necessary difference—3.73 bushels			Rainfall—May to August—11.41 inches						
VICTOR DEPTUCK, ST. DENIS									
13	8	Canthatch	27.3	105	32	1.5	61	3 Nor.	Bl.
		Thatcher	26.4	104	33	1.3	60	3 Nor.	Bl.
		Selkirk	25.3	104	32	2.3	58	3 Nor.	S.
		Park	25.8	107	33	2.8	61	3 Nor.	S.
		Pembina	27.8	102	32	3.0	61	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—8.77 inches						
RICHARD LEUSCHEN, BRUNO									
13	9	Canthatch	23.2	—	—	4.8	61	2 Nor.	S.
		Thatcher	21.9	—	—	4.5	61	2 Nor.	S.
		Selkirk	24.6	—	—	4.8	59	2 Nor.	S.
		Park	22.2	—	—	4.8	61	2 Nor.	S.
		Pembina	21.2	—	—	4.5	59	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—7.36 inches						
WAYNE FORD, HUMBOLDT									
13	10	Canthatch	25.5	95	34	2.0	63	2 Nor.	S.
		Thatcher	25.7	95	35	3.5	62	2 Nor.	S.
		Selkirk	28.8	95	33	1.3	60	3 Nor.	S.
		Park	22.4	95	32	3.3	63	2 Nor.	S.
		Pembina	24.0	95	32	4.5	62	2 Nor.	S.
Necessary difference—3.19 bushels			Rainfall—May to August—8.01 inches						
GORDON POMEDLI, PILGER									
13	10	Canthatch	32.2	109	—	2.0	60	2 Nor.	Bl.
		Thatcher	32.1	110	—	2.0	59	3 Nor.	Bl.
		Selkirk	40.2	109	—	2.0	59	3 Nor.	Bl.
		Park	30.4	109	—	2.0	59	3 Nor.	Bl.
		Pembina	33.4	110	—	2.0	60	2 Nor.	Bl.
Necessary difference—4.88 bushels			Rainfall—May to August—11.23 inches						

Wheat Pool District 13—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
FRANKLIN BLANDIN, ST. BRIEUX									
13	11	Canthatch	23.0	91	33	1.0	61	2 Nor.	Bl.
		Thatcher	22.3	91	34	1.0	61	2 Nor.	Bl.
		Selkirk	22.4	93	33	1.0	59	2 Nor.	Bl.
		Park	22.5	91	33	1.0	61	2 Nor.	Bl.
		Pembina	20.6	93	33	2.0	60	2 Nor.	Bl.
Yield differences not significant					Rainfall—May to August—13.08 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:									
13	7	James A. Anderson, Kinley							
13	8	Donald Wudrick, Saskatoon							

WHEAT POOL DISTRICT NUMBER 14

EDWARD CESLAK, PERIGORD									
14	1	Canthatch	40.2	89	38	4.8	61	2 Nor.	S.
		Thatcher	38.7	91	39	6.0	60	2 Nor.	S.
		Selkirk	48.6	92	37	6.8	61	2 Nor.	S.
		Park	39.2	90	39	5.0	60	2 Nor.	S.
		Pembina	42.9	93	35	5.8	62	2 Nor.	S.
Necessary difference—3.74 bushels					Rainfall—May to August—10.22 inches				
ROBERT STARKS, LAC VERT									
14	3	Canthatch	40.4	—	42	2.8	62	2 Nor.	S.
		Thatcher	39.4	—	42	3.0	62	2 Nor.	S.
		Selkirk	48.1	—	44	1.0	61	2 Nor.	S.
		Park	39.3	—	42	2.0	62	2 Nor.	S.
		Pembina	42.1	—	41	3.8	62	2 Nor.	S.
Necessary difference—2.43 bushels					Rainfall—May to August—11.32 inches				
R. DENNIS DOWNEY, McKAGUE									
14	4	Canthatch	47.1	—	34	9.0	62	2 Nor.	Bl.
		Thatcher	46.3	—	36	9.0	62	2 Nor.	Bl.
		Selkirk	47.1	—	34	9.0	60	2 Nor.	Bl.
		Park	42.8	—	32	9.0	62	2 Nor.	Bl.
		Pembina	40.5	—	32	9.0	61	2 Nor.	Bl.
Necessary difference—4.45 bushels					Rainfall—May to August—13.09 inches				
JOS. GEO. BELANKO, PRAIRIE RIVER									
14	6	Canthatch	48.1	101	35	5.0	60	2 Nor.	S.
		Thatcher	48.6	101	36	3.8	59	2 Nor.	S.
		Selkirk	54.1	94	40	1.0	57	3 Nor.	S.
		Park	41.6	96	40	1.5	61	2 Nor.	S.
		Pembina	46.8	101	33	5.0	57	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—11.36 inches				
WAYNE DMYTRIW, PORCUPINE PLAIN									
14	6	Canthatch	29.4	—	—	—	61	2 Nor.	Bl.
		Thatcher	31.3	—	—	—	61	2 Nor.	Bl.
		Selkirk	27.1	—	—	—	59	2 Nor.	Bl.
		Park	26.7	—	—	—	61	2 Nor.	Bl.
		Pembina	24.4	—	—	—	60	2 Nor.	Bl.
Yield differences not significant					Rainfall—May to August—incomplete				
WILMER PIERCE, TISDALE									
14	7	Canthatch	32.4	94	39	1.0	61	2 Nor.	Bl.
		Thatcher	35.3	92	39	1.0	60	2 Nor.	Bl.
		Selkirk	33.3	92	38	1.0	60	2 Nor.	Bl.
		Park	31.5	93	38	1.0	61	2 Nor.	Bl.
		Pembina	32.3	90	37	1.0	61	2 Nor.	Bl.
Yield differences not significant					Rainfall—May to August—8.36 inches				
DON HANBERG, MELFORT									
14	8	Canthatch	31.8	101	34	3.3	65	1 Nor.	—
		Thatcher	32.5	101	36	3.0	64	1 Nor.	—
		Selkirk	47.7	100	35	3.0	63	2 Nor.	S.
		Park	34.3	99	34	1.8	64	1 Nor.	—
		Pembina	38.4	97	33	4.0	63	2 Nor.	S.
Necessary difference—3.06 bushels					Rainfall—May to August—9.42 inches				

Wheat Pool District 14—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
GLENN PILLING, KINISTINO									
14	9	Canthatch	37.1	99	39	1.0	61	2 Nor.	Bl.
		Thatcher	37.8	106	43	1.0	59	2 Nor.	Bl.
		Selkirk	44.5	105	41	1.0	59	2 Nor.	Bl.
		Park	35.3	103	38	1.0	60	2 Nor.	Bl.
		Pembina	37.4	95	36	1.0	61	2 Nor.	Bl.
Necessary difference—2.95 bushels			Rainfall—May to August—10.78 inches						

JIM GARINGER, BROOKSBY									
14	9	Canthatch	26.1	88	30	1.0	61	2 Nor.	S.
		Thatcher	27.6	88	30	1.0	60	2 Nor.	S.
		Selkirk	33.3	88	30	1.0	59	2 Nor.	S.
		Park	28.4	88	30	1.0	61	2 Nor.	S.
		Pembina	30.1	88	30	1.0	61	2 Nor.	S.
Necessary difference—2.37 bushels			Rainfall—May to August—10.63 inches						

ROGER J. MULLIE, ARBORFIELD									
14	10	Canthatch	31.1	113	34	2.8	60	2 Nor.	Bl.
		Thatcher	36.4	113	34	2.5	59	2 Nor.	Bl.
		Selkirk	34.0	112	34	1.3	57	3 Nor.	Bl.
		Park	25.8	114	33	4.8	60	2 Nor.	Bl.
		Pembina	26.9	113	34	3.0	59	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—8.86 inches						

DONALD WATSON, NIPAWIN									
14	11	Canthatch	20.7	—	—	—	61	2 Nor.	Bl.
		Thatcher	21.7	—	—	—	60	2 Nor.	Bl.
		Selkirk	21.8	—	—	—	58	2 Nor.	Bl.
		Park	18.1	—	—	—	61	2 Nor.	Bl.
		Pembina	20.6	—	—	—	58	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—8.71 inches						

WHEAT POOL DISTRICT NUMBER 15

DARREL KYDLAND, BIRCH HILLS									
15	1	Canthatch	34.0	—	—	—	60	2 Nor.	Bl.
		Thatcher	33.8	—	—	—	59	2 Nor.	Bl.
		Selkirk	41.7	—	—	—	58	2 Nor.	Bl.
		Park	33.9	—	—	—	58	2 Nor.	Bl.
		Pembina	33.2	—	—	—	59	2 Nor.	Bl.
Necessary difference—5.40 bushels			Rainfall—May to August—incomplete						

TIM YONT, FENTON									
15	1	Canthatch	41.5	—	38	—	59	2 Nor.	Bl.
		Thatcher	41.3	—	38	—	59	2 Nor.	Bl.
		Selkirk	53.9	—	38	—	60	2 Nor.	S.
		Park	42.0	—	39	—	60	2 Nor.	S.
		Pembina	43.1	—	36	—	60	2 Nor.	Bl.
Necessary difference—3.93 bushels			Rainfall—May to August—12.33 inches						

DONALD HOEY, HOEY									
15	2	Canthatch	20.4	—	—	—	57	4 Nor.	Bl., S.
		Thatcher	20.8	—	—	—	56	4 Nor.	Bl., S.
		Selkirk	24.5	—	—	—	54	4 Sp.	Bl., S.
		Park	19.9	—	—	—	56	4 Nor.	Bl., S.
		Pembina	22.7	—	—	—	56	4 Nor.	Bl., S.
Necessary difference—2.60 bushels			Rainfall—May to August—9.17 inches						

DONALD ROSS, DAVIS									
15	3	Canthatch	21.1	—	—	—	57	3 Nor.	Bl.
		Thatcher	16.5	—	—	—	56	4 Nor.	Bl.
		Selkirk	21.4	—	—	—	55	No. 5	Bl.
		Park	19.6	—	—	—	57	3 Nor.	Bl.
		Pembina	20.9	—	—	—	57	3 Nor.	Bl.
Necessary difference—2.72 bushels			Rainfall—May to August—12.48 inches						

NORMAN V. DOELL, HAGUE									
15	4	Canthatch	31.7	—	30	3.0	58	3 Nor.	Bl.
		Thatcher	31.4	—	30	3.0	57	3 Nor.	Bl.
		Selkirk	30.3	—	31	4.0	55	4 Sp.	Bl.
		Park	31.4	—	29	5.0	58	3 Nor.	Bl.
		Pembina	30.8	—	32	6.0	58	3 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—10.81 inches						

Wheat Pool District 15—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
BILLY PARKS, BLUE HERON									
15	6	Canthatch	47.7	—	—	—	63	2 Nor.	Bl.
		Thatcher	46.1	—	—	—	62	2 Nor.	Bl.
		Selkirk	51.2	—	—	—	62	2 Nor.	Bl.
		Park	45.5	—	—	—	62	2 Nor.	Bl.
		Pembina	45.8	—	—	—	63	2 Nor.	Bl.
Necessary difference—2.81 bushels			Rainfall—May to August—11.44 inches						
EDDIE STENE, SHELLBROOK									
15	6	Canthatch	28.1	110	33	2.0	59	2 Nor.	Bl.
		Thatcher	30.4	109	29	2.0	59	2 Nor.	Bl.
		Selkirk	32.5	108	31	2.0	58	2 Nor.	Bl.
		Park	24.6	107	34	2.0	59	2 Nor.	Bl.
		Pembina	27.8	104	30	2.0	59	2 Nor.	Bl.
Necessary difference—3.48 bushels			Rainfall—May to August—11.35 inches						
OLGA NAKONECHNY, FOXFORD									
15	10	Canthatch	36.5	—	—	—	62	2 Nor.	S.
		Thatcher	36.9	—	—	—	60	2 Nor.	S.
		Selkirk	40.2	—	—	—	59	2 Nor.	S.
		Park	39.2	—	—	—	61	2 Nor.	S.
		Pembina	38.2	—	—	—	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—Incomplete						
FLORENCE C. GOETZIE, SNOWDEN									
15	11	Canthatch	28.0	—	37	3.0	61	2 Nor.	Bl.
		Thatcher	29.1	—	37	3.5	60	2 Nor.	Bl.
		Selkirk	29.2	—	37	3.5	60	2 Nor.	S.
		Park	29.0	—	37	3.3	62	2 Nor.	S.
		Pembina	26.2	—	37	3.5	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—6.01 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:									
15	5	Stanley Bold, Marcelin							
15	5	Dennis Coates, Leask							
15	7	Gerard Durette, Debden							
15	8	Harold Pugh, Holbein							

WHEAT POOL DISTRICT NUMBER 16

DAVID ALEXANDER, DENHOLM									
16	1	Canthatch	42.1	89	36	3.5	61	2 Nor.	S.
		Thatcher	40.4	88	37	3.5	59	2 Nor.	S.
		Selkirk	40.6	87	37	1.0	57	3 Nor.	S.
		Park	39.2	88	35	4.3	60	2 Nor.	S.
		Pembina	40.4	87	35	2.5	60	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—11.81 inches				
WARREN BALLSRUD, MAYMONT									
16	1	Canthatch	36.3	95	36	2.0	61	2 Nor.	S.
		Thatcher	36.8	95	36	2.0	61	2 Nor.	S.
		Selkirk	42.1	95	36	1.0	60	2 Nor.	S.
		Park	37.5	94	35	2.0	62	2 Nor.	S.
		Pembina	36.8	95	35	2.0	62	2 Nor.	S.
Necessary difference—3.38 bushels					Rainfall—May to August—12.09 inches				
NORBERT BEDIER, HAFFORD									
16	2	Canthatch	39.0	88	43	2.3	61	2 Nor.	S.
		Thatcher	40.0	87	43	1.8	59	3 Nor.	S.
		Selkirk	43.2	87	44	1.8	58	3 Nor.	S.
		Park	40.0	87	44	2.5	61	2 Nor.	S.
		Pembina	40.6	87	44	3.3	60	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—8.74 inches				
NESTOR KOWALSKY, RICHARD									
16	2	Canthatch	42.1	—	—	—	61	2 Nor.	S.
		Thatcher	40.0	—	—	—	61	2 Nor.	S.
		Selkirk	47.5	—	—	—	60	2 Nor.	S.
		Park	43.6	—	—	—	62	2 Nor.	S.
		Pembina	42.3	—	—	—	61	2 Nor.	S.
Necessary difference—2.38 bushels					Rainfall—May to August—9.49 inches				

Wheat Pool District 16—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
ADAM SWISTUN, WHITKOW									
16	3	Canthatch	38.7	102	46	5.5	58	3 Nor.	Bl.
		Thatcher	37.1	100	48	7.0	57	3 Nor.	Bl.
		Selkirk	40.5	102	48	8.0	56	4 Nor.	Bl.
		Park	36.8	101	47	5.5	57	3 Nor.	Bl.
		Pembina	34.9	100	45	6.0	59	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—10.10 inches						
BOB STUART, EDAM									
16	4	Canthatch	47.8	110	—	—	62	2 Nor.	Bl.
		Thatcher	46.9	111	—	—	62	2 Nor.	Bl.
		Selkirk	47.2	117	—	—	59	2 Nor.	Bl.
		Park	43.9	118	—	—	62	2 Nor.	Bl.
		Pembina	45.7	115	—	—	61	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—9.19 inches						
THOMAS R. GREGG, PAYNTON									
16	5	Canthatch	27.3	—	—	—	60	2 Nor.	Bl.
		Thatcher	27.1	—	—	—	59	2 Nor.	Bl.
		Selkirk	28.5	—	—	—	58	2 Nor.	Bl.
		Park	24.9	—	—	—	61	2 Nor.	Bl.
		Pembina	25.7	—	—	—	60	2 Nor.	Bl.
Necessary difference—2.38 bushels			Rainfall—May to August—9.52 inches						
JIM SWAN, LLOYDMINSTER									
16	6	Canthatch	24.9	—	—	—	63	2 Nor.	S.
		Thatcher	23.9	—	—	—	62	2 Nor.	S.
		Selkirk	27.0	—	—	—	61	2 Nor.	S.
		Park	24.4	—	—	—	64	1 Nor.	—
		Pembina	23.7	—	—	—	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—8.28 inches						
JOE ROTHERY, PARADISE HILL									
16	7	Canthatch	54.3	—	39	2.0	63	2 Nor.	Bl.
		Thatcher	50.8	—	37	1.8	62	2 Nor.	Bl.
		Selkirk	47.8	—	38	1.8	59	2 Nor.	Bl.
		Park	46.4	—	37	2.3	63	2 Nor.	Bl.
		Pembina	44.2	—	36	2.0	61	2 Nor.	Bl.
Necessary difference—4.44 bushels			Rainfall—May to August—6.44 inches						
BLAKE PETERS, BELBUTTE									
16	9	Canthatch	39.3	102	38	1.3	60	2 Nor.	Bl.
		Thatcher	39.8	102	39	2.3	60	2 Nor.	Bl.
		Selkirk	35.0	108	39	1.3	57	3 Nor.	Bl.
		Park	45.3	107	37	3.3	59	2 Nor.	Bl.
		Pembina	34.4	107	36	4.8	59	2 Nor.	Bl.
Necessary difference—6.60 bushels			Rainfall—May to August—10.85 inches						
WILLIAM J. DESROSIERS, GLASLYN									
16	9	Canthatch	40.8	107	38	1.5	63	2 Nor.	S.
		Thatcher	39.5	107	39	1.5	63	2 Nor.	S.
		Selkirk	44.3	107	40	1.0	61	2 Nor.	S.
		Park	37.6	107	37	2.3	63	2 Nor.	S.
		Pembina	39.1	104	37	2.8	63	2 Nor.	S.
Necessary difference—4.17 bushels			Rainfall—May to August—10.96 inches						
RENE O. HENRI, LEOVILLE									
16	10	Canthatch	43.6	99	38	4.8	60	2 Nor.	Bl.
		Thatcher	43.1	99	38	5.0	58	3 Nor.	Bl.
		Selkirk	44.0	99	38	4.5	58	3 Nor.	Bl.
		Park	40.7	99	38	5.0	59	2 Nor.	Bl.
		Pembina	34.7	99	37	4.5	59	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—15.29 inches						
BILL CLARK, MAYFAIR									
16	10	Canthatch	46.2	104	37	2.0	62	2 Nor.	S.
		Thatcher	43.0	103	37	1.5	62	2 Nor.	S.
		Selkirk	47.9	103	36	1.8	60	2 Nor.	S.
		Park	42.9	102	29	3.8	62	2 Nor.	S.
		Pembina	45.7	103	29	3.8	62	2 Nor.	S.
Necessary difference—3.52 bushels			Rainfall—May to August—10.53 inches						

Wheat Pool District 16—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
ERNST VIDAL, LOON RIVER									
16	11	Canthatch	19.2	89	35	1.0	62	2 Nor.	Bl.
		Thatcher	19.2	90	35	1.0	61	2 Nor.	Bl.
		Selkirk	20.5	89	35	1.0	59	4 Nor.	Sp.
		Park	19.1	85	32	1.0	62	2 Nor.	Bl.
		Pembina	16.3	87	32	1.0	60	4 Nor.	Sp.
Yield differences not significant				Rainfall—May to August—10.07 inches					
BARRY DALLYN, FOUR CORNERS									
16	11	Canthatch	21.2	109	31	1.5	62	2 Nor.	Bl.
		Thatcher	23.0	104	30	1.5	62	2 Nor.	Bl.
		Selkirk	22.9	101	30	1.3	61	2 Nor.	Bl.
		Park	18.7	105	26	2.8	62	2 Nor.	Bl.
		Pembina	21.1	108	28	1.8	60	2 Nor.	Bl.
Yield differences not significant				Rainfall—May to August—10.21 inches					



Measurement of rainfall was an important part of the duties of each variety test supervisor. Here Brian Richert of Young demonstrates how the measurement is taken.

Table No. 25

INDIVIDUAL TEST RESULTS — DURUM

The results of all successful durum tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 9, headed, "Interpretation of Results."

IMPORTANT—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviation under "Grading Remarks," see page 9.

WHEAT POOL DISTRICT NUMBER 1

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ONEIL GERVAIS, ALIDA									
1	2	Stewart	26.6	99	35	6.3	63	3 CW	T.
		Ramsey	19.2	98	35	7.3	60	4 CW	T.
		Pelissier	21.0	99	35	7.3	57	5 CW	T.
		Stewart-63	39.4	99	34	8.0	65	2 CW	T.
		Canthatch	22.6	97	35	5.0	60	2 Nor.	S.
Necessary difference—8.65 bushels.			Rainfall—May to August—9.95 inches						
LYLE FEE, ALAMEDA									
1	3	Stewart	13.7	103	30	3.0	55	5 CW	T., Bl.
		Ramsey	22.1	105	29	3.0	61	3 CW	T., Bl.
		Pelissier	5.3	107	25	4.0	45	Fd.	T., Bl.
		Stewart-63	26.1	104	31	3.0	64	2 CW	T., Bl.
		Canthatch	10.1	106	26	5.0	54	4 Sp.	Bl.
Necessary difference—5.53 bushels			Rainfall—May to August—14.90 inches						
VAN HENDERSON, HIRSCH									
1	4	Stewart	30.9	113	—	7.3	51	6 CW	T., Dp
		Ramsey	24.7	113	—	8.3	53	6 CW	T., Dp
		Pelissier	17.4	113	—	9.0	49	Fd.	T., Dp
		Stewart-63	40.1	113	—	8.0	57	4 CW	T., Dp
		Canthatch	23.3	101	—	2.0	56	4 Nor.	Bl. Dp
Necessary difference—7.89 bushels			Rainfall—May to August—16.12 inches						
CHARLES TRUMAN, MIDALE									
1	6	Stewart	—	—	37	2.0	60	3 CW	T.
		Ramsey	—	—	38	2.0	64	2 CW	T.
		Pelissier	—	—	37	2.0	58	Ex. 4 CW	T.
		Stewart-63	—	—	39	2.0	62	3 CW	T.
		Canthatch	—	—	36	1.0	60	3 Nor.	T.
Part of test damaged by grasshoppers—yields not reliable			Rainfall—May to August—15.77 inches						
GLENN BERGUM, TORQUAY									
1	6	Stewart	—	—	—	—	50	Fd.	Bl.
		Ramsey	—	—	—	—	59	4 CW	Bl.
		Pelissier	—	—	—	—	54	5 CW	Bl.
		Stewart-63	—	—	—	—	59	4 CW	Bl.
		Canthatch	—	—	—	—	52	No. 5	Bl.
Part of test damaged by grasshoppers—yields not reliable			Rainfall—May to August—Incomplete						
DAVID and CLIFFORD JAMES, ARCOLA									
1	9	Stewart	26.8	—	—	—	64	2 CW	T.
		Ramsey	40.4	—	—	—	64	2 CW	T.
		Pelissier	20.2	—	—	—	59	Ex. 4 CW	T.
		Stewart-63	46.8	—	—	—	66	1 CW	—
		Canthatch	26.0	—	—	—	58	2 Nor.	Bl.
Necessary difference—4.15 bushels			Rainfall—May to August—Incomplete						
LUCIEN LE NOUAIL, WAUCHOPE									
1	10	Stewart	17.2	—	46	5.3	57	4 CW	T.
		Ramsey	32.7	—	43	5.0	64	2 CW	T.
		Pelissier	13.6	—	49	5.3	53	6 CW	T.
		Stewart-63	42.5	—	48	8.0	65	1 CW	—
		Canthatch	19.9	—	34	5.0	59	3 Nor.	S.
Necessary difference—5.57 bushels			Rainfall—May to August—11.58 inches						

WHEAT POOL DISTRICT NUMBER 2

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
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LIEF MADSEN, HARDY

2	2	Stewart	29.4	97	46	2.3	63	3 CW	T.
		Ramsey	32.7	97	45	3.0	63	3 CW	T.
		Pelissier	29.9	97	45	3.3	63	Ex. 4 CW	—
		Stewart-63	30.3	97	45	3.3	61	3 CW	T.
		Canthatch	31.3	93	42	3.0	59	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—12.66 inches						

BRIAN B. HILLIER, CORONACH

2	3	Stewart	22.2	91	38	1.3	64	2 CW	T.
		Ramsey	33.2	90	39	1.8	64	2 CW	T.
		Pelissier	30.3	92	39	1.5	64	Ex. 4 CW	—
		Stewart-63	25.2	92	38	2.3	63	2 CW	T.
		Canthatch	24.0	88	38	2.0	58	3 Nor.	Bl., S.
Necessary difference—2.84 bushels			Rainfall—May to August—8.98 inches						

DOUGLAS KLEINFELDER, ROCKGLEN

2	4	Stewart	32.7	—	36	—	61	3 CW	T.
		Ramsey	32.3	—	36	—	62	3 CW	T.
		Pelissier	36.6	—	36	—	63	Ex. 4 CW	—
		Stewart-63	36.0	—	39	—	61	3 CW	T.
		Canthatch	25.4	—	36	—	57	4 Nor.	Bl., S.
Necessary difference—3.55 bushels			Rainfall—May to August—14.32 inches						

COLIN KELLER, ROCKGLEN

2	5	Stewart	47.4	—	50	2.8	63	3 CW	T.
		Ramsey	47.7	—	48	2.8	62	3 CW	T.
		Pelissier	43.9	—	51	5.5	62	Ex. 4 CW	T.
		Stewart-63	50.7	—	54	4.5	64	2 CW	T.
		Canthatch	41.7	—	35	2.3	60	3 Nor.	S.
Necessary difference—3.76 bushels			Rainfall—May to August—16.06 inches						

PERRY PUNGA, WOOD MOUNTAIN

2	7	Stewart	22.0	—	30	2.0	60	3 CW	T.
		Ramsey	25.7	—	36	1.0	62	2 CW	T.
		Pelissier	24.8	—	36	1.0	61	Ex. 4 CW	T.
		Stewart-63	19.3	—	36	3.0	58	4 CW	T.
		Canthatch	30.0	—	30	1.0	60	3 Nor.	S.
Necessary difference—4.81 bushels			Rainfall—May to August—8.72 inches						

JOHN BUMBAC, LIMERICK

2	7	Stewart	30.0	91	44	2.0	62	3 CW	T.
		Ramsey	27.7	90	43	2.0	62	3 CW	T.
		Pelissier	29.8	91	44	2.0	63	Ex. 4 CW	—
		Stewart-63	31.3	89	42	2.0	61	3 CW	T.
		Canthatch	27.4	91	36	1.0	58	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—11.95 inches						

ARNE IVERSON, BURES

2	9	Stewart	29.0	92	46	1.0	63	2 CW	T.
		Ramsey	29.5	93	44	1.8	64	2 CW	T.
		Pelissier	30.7	92	43	3.5	63	Ex. 4 CW	—
		Stewart-63	29.4	93	44	1.3	63	2 CW	T.
		Canthatch	26.4	90	36	5.3	58	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—11.18 inches						

BRIAN L. NAST, TROSSACHS

2	10	Stewart	35.0	98	40	2.0	64	2 CW	T.
		Ramsey	42.4	98	37	2.0	64	2 CW	T.
		Pelissier	31.1	98	41	2.0	63	Ex. 4 CW	—
		Stewart-63	41.2	98	40	2.0	63	3 CW	T.
		Canthatch	28.6	91	32	1.0	60	2 Nor.	S.
Necessary difference—4.68 bushels			Rainfall—May to August—12.38 inches						

WHEAT POOL DISTRICT NUMBER 3

IAN SHIRLEY, CLIMAX

3	3	Stewart	19.5	—	30	1.0	61	4 CW	T.
		Ramsey	21.6	—	30	1.3	62	3 CW	T.
		Pelissier	20.1	—	27	1.5	62	Ex. 4 CW	T.
		Stewart-63	19.5	—	35	1.0	60	4 CW	T.
		Canthatch	22.3	—	24	3.0	58	4 Nor.	S.
Necessary difference—2.00 bushels			Rainfall—May to August—7.44 inches						

Wheat Pool District 3—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
COLIN PIERCE, CONSUL									
3	5	Stewart	21.6	—	—	—	63	3 CW	T.
		Ramsey	23.0	—	—	—	65	2 CW	T.
		Pelissier	24.2	—	—	—	64	Ex. 4 CW	—
		Stewart-63	22.2	—	—	—	63	3 CW	T.
		Canthatch	24.2	—	—	—	62	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—Incomplete					

EDWARD ARENDT, EASTEND									
3	6	Stewart	33.1	—	44	6.0	62	3 CW	T.
		Ramsey	33.4	—	40	8.0	64	2 CW	T.
		Pelissier	35.0	—	42	7.0	63	Ex. 4 CW	—
		Stewart-63	34.5	—	45	7.0	63	3 CW	T.
		Canthatch	28.3	—	36	7.0	58	4 Nor.	S.
Necessary difference—4.37 bushels				Rainfall—May to August—7.81 inches					

RICHARD GIRARD, EASTEND									
3	7	Stewart	25.1	—	—	—	62	3 CW	T.
		Ramsey	28.9	—	—	—	63	3 CW	T.
		Pelissier	25.5	—	—	—	62	Ex. 4 CW	—
		Stewart-63	23.7	—	—	—	60	4 CW	T.
		Canthatch	24.5	—	—	—	60	2 Nor.	S.
Yield differences not significant				Rainfall—May to August—15.37 inches					

DONALD WERNICKE, CADILLAC									
3	9	Stewart	25.2	87	36	1.0	58	4 CW	T.
		Ramsey	25.0	89	36	1.0	63	2 CW	T.
		Pelissier	24.4	95	36	2.0	59	Ex. 4 CW	T.
		Stewart-63	22.8	83	36	1.0	58	4 CW	T.
		Canthatch	27.6	84	33	2.0	58	3 Nor.	S.
Yield differences not significant				Rainfall—May to August—7.69 inches					

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

3 4 Merle and Gary Sanford, Loomis

WHEAT POOL DISTRICT NUMBER 4

MICHAEL KREUTZER, PIAPOT									
4	1	Stewart	—	—	—	—	64	2 CW	T.
		Ramsey	—	—	—	—	64	2 CW	T.
		Pelissier	—	—	—	—	61	Ex. 4 CW	—
		Stewart-63	—	—	—	—	64	2 CW	T.
		Canthatch	—	—	—	—	57	3 Nor.	Bl.
Test damaged—yields not reliable				Rainfall—May to August—Incomplete					

K. R. HYMERS, SWIFT CURRENT									
4	3	Stewart	35.0	102	32	2.0	65	2 CW	T.
		Ramsey	29.7	107	30	2.0	63	3 CW	T.
		Pelissier	40.0	107	40	4.5	64	Ex. 4 CW	—
		Stewart-63	36.1	107	32	4.0	65	2 CW	T.
		Canthatch	36.8	93	30	1.0	63	2 Nor.	S.
Necessary difference—5.94 bushels				Rainfall—May to August—9.76 inches					

F. HOMANN, GULL LAKE									
4	4	Stewart	57.2	—	47	1.0	65	2 CW	T.
		Ramsey	56.4	—	45	1.0	65	2 CW	T.
		Pelissier	59.4	—	44	1.0	63	Ex. 4 CW	—
		Stewart-63	59.6	—	50	1.0	65	2 CW	T.
		Canthatch	39.7	—	37	1.0	63	2 Nor.	S.
Necessary difference—5.64 bushels				Rainfall—May to August—10.49 inches					

WAYNE and BRIAN STADE, CABRI									
4	5	Stewart	16.1	—	26	2.5	66	1 CW	—
		Ramsey	22.5	—	31	2.8	66	1 CW	—
		Pelissier	19.5	—	27	2.0	65	Ex. 4 CW	—
		Stewart-63	20.3	—	27	1.8	65	2 CW	T.
		Canthatch	14.7	—	24	3.0	62	2 Nor.	S.
Necessary difference—3.01 bushels				Rainfall—May to August—9.78 inches					

Wheat Pool District 4—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
CHARLES GUTFRIEND, MENDHAM									
4	8	Stewart	62.6	—	51	3.0	68	1 CW	—
		Ramsey	58.4	—	49	2.5	67	1 CW	—
		Pelissier	59.7	—	50	3.3	66	Ex. 4 CW	—
		Stewart-63	67.7	—	52	3.3	67	1 CW	—
		Canthatch	52.5	—	41	3.0	63	2 Nor.	Bl.
Necessary difference—5.69 bushels			Rainfall—May to August—8.14 inches						

WHEAT POOL DISTRICT NUMBER 5

GERALD CARROBOURG, GRAVELBOURG									
5	2	Stewart	44.1	—	—	—	68	1 CW	—
		Ramsey	35.6	—	—	—	67	1 CW	—
		Pelissier	33.9	—	—	—	65	Ex. 4 CW	—
		Stewart-63	46.4	—	—	—	67	2 CW	St.
		Canthatch	32.1	—	—	—	64	1 Nor.	—
Necessary difference—3.47 bushels				Rainfall—May to August—14.22 inches					
BRIAN STRAWFORD, VANGUARD									
5	2	Stewart	35.5	—	—	—	64	2 CW	T.
		Ramsey	32.1	—	—	—	64	2 CW	T.
		Pelissier	39.9	—	—	—	65	Ex. 4 CW	—
		Stewart-63	36.3	—	—	—	63	3 CW	T.
		Canthatch	28.7	—	—	—	62	2 Nor.	S.
Necessary difference—2.79 bushels				Rainfall—May to August—10.30 inches					

WAYNE FRIESE, WALDECK									
5	4	Stewart	—	—	20	2.0	64	2 CW	T.
		Ramsey	—	—	27	2.0	65	2 CW	T.
		Pelissier	—	—	23	2.0	64	Ex. 4 CW	—
		Stewart-63	—	—	24	2.5	65	4 CW	Er.
		Canthatch	—	—	25	3.0	60	2 Nor.	S.
Yields variable—not reliable			Rainfall—May to August—9.47 inches						

DWAYNE BARKMAN, FLOWING WELL									
5	5	Stewart	36.9	99	45	3.0	66	1 CW	—
		Ramsey	35.0	99	44	4.0	65	2 CW	T.
		Pelissier	38.7	99	41	3.0	65	Ex. 4 CW	—
		Stewart-63	38.0	99	47	3.0	65	2 CW	T.
		Canthatch	30.3	98	33	3.0	62	2 Nor.	S.
Necessary difference—1.58 bushels			Rainfall—May to August—10.90 inches						

DAVID HICKS, MARQUIS									
5	8	Stewart	40.9	101	53	3.0	66	1 CW	—
		Ramsey	44.8	108	50	5.0	67	1 CW	—
		Pelissier	33.9	101	50	5.0	62	Ex. 4 CW	T.
		Stewart-63	46.4	108	55	5.0	67	1 CW	—
		Canthatch	27.4	92	38	5.0	61	3 Nor.	S.
Necessary difference—5.16 bushels			Rainfall—May to August—15.85 inches						

DALE HEIYDT, ERNFOLD									
5	10	Stewart	45.1	89	44	6.0	66	1 CW	—
		Ramsey	35.1	89	43	5.0	65	1 CW	—
		Pelissier	42.3	89	44	6.0	65	Ex. 4 CW	—
		Stewart-63	50.4	89	49	6.0	66	1 CW	—
		Canthatch	31.5	87	37	7.0	60	2 Nor.	S.
Necessary difference—4.91 bushels			Rainfall—May to August—12.95 inches						

WHEAT POOL DISTRICT NUMBER 6

CATHERINE MOATS, GRAY									
6	2	Stewart	50.3	107	48	2.5	67	1 CW	—
		Ramsey	55.9	109	43	2.0	67	1 CW	—
		Pelissier	42.4	107	44	1.0	66	Ex. 4 CW	—
		Stewart-63	52.1	107	48	3.3	67	1 CW	—
		Canthatch	25.2	101	32	1.0	59	3 Nor.	S.
Necessary difference—6.51 bushels			Rainfall—May to August—12.65 inches						

Wheat Pool District 6—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DALE KLIPPENSTINE, DUMMER									
6	3	Stewart	41.3	—	38	—	66	1 CW	—
		Ramsey	42.0	—	40	—	66	1 CW	—
		Pelissier	43.8	—	39	—	64	Ex. 4 CW	—
		Stewart-63	42.6	—	40	—	67	1 CW	—
		Canthatch	33.5	—	30	—	61	2 Nor.	—
Yield differences not significant					Rainfall—May to August—8.27 inches				

VERNON BALDWIN, CABRI									
4	6	Stewart	27.2	95	41	7.5	64	2 CW	T.
		Ramsey	32.6	94	41	9.0	64	2 CW	T.
		Pelissier	31.4	95	40	9.0	64	Ex. 4 CW	—
		Stewart-63	27.6	94	44	8.5	63	3 CW	T.
		Canthatch	29.7	89	34	8.8	59	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—9.29 inches				

IAN and CAMERON MITCHELL, CARDROSS									
6	4	Stewart	44.0	109	43	2.8	68	1 CW	—
		Ramsey	53.3	106	38	3.0	67	1 CW	—
		Pelissier	39.9	109	39	5.0	64	Ex. 4 CW	—
		Stewart-63	52.8	108	44	2.0	67	1 CW	—
		Canthatch	—	94	36	1.0	—	—	—
Canthatch destroyed—yields not included in district summary					Rainfall—May to August—11.66 inches				

CHRIS HALE, PITMAN									
6	6	Stewart	30.2	106	42	2.0	66	1 CW	—
		Ramsey	28.7	106	42	2.0	65	2 CW	T.
		Pelissier	26.4	110	45	3.0	64	Ex. 4 CW	—
		Stewart-63	33.2	107	42	3.0	67	1 CW	—
		Canthatch	13.1	98	38	2.0	62	2 Nor.	S.
Necessary difference—3.78 bushels					Rainfall—May to August—12.84 inches				

DOUG GRAY, INDIAN HEAD									
6	8	Stewart	25.2	—	48	5.0	65	2 CW	T.
		Ramsey	32.0	—	48	5.0	66	1 CW	—
		Pelissier	25.7	—	48	5.0	64	Ex. 4 CW	—
		Stewart-63	31.3	—	48	5.0	67	1 CW	—
		Canthatch	21.4	—	36	2.0	59	3 Nor.	S.
Necessary difference—3.48 bushels					Rainfall—May to August—13.60 inches				

BILL ODDIE, TREGARVA									
6	10	Stewart	34.9	105	44	5.8	64	3 CW	T.
		Ramsey	41.7	107	42	5.8	66	2 CW	T.
		Pelissier	32.0	101	46	5.8	63	Ex. 4 CW	—
		Stewart-63	52.5	104	47	4.8	67	1 CW	—
		Canthatch	26.6	97	36	2.0	62	2 Nor.	S.
Necessary difference—7.84 bushels					Rainfall—May to August—13.60 inches				

WHEAT POOL DISTRICT NUMBER 7

BILL KETCHESON, DOONSIDE									
7	1	Stewart	55.3	116	50	5.3	65	2 CW	T.
		Ramsey	50.4	114	48	4.3	64	2 CW	T.
		Pelissier	37.8	116	45	7.3	61	Ex. 4 CW	—
		Stewart-63	63.0	117	49	6.0	66	1 CW	—
		Canthatch	37.5	103	37	1.0	63	1 Nor.	—
Necessary difference—7.76 bushels					Rainfall—May to August—14.93 inches				

DONALD J. INNES, OSAGE									
7	5	Stewart	37.8	99	44	—	65	2 CW	T.
		Ramsey	40.6	101	37	—	65	2 CW	T.
		Pelissier	35.7	99	39	—	64	Ex. 4 CW	—
		Stewart-63	46.4	101	43	—	66	1 CW	—
		Canthatch	30.3	93	33	—	61	3 Nor.	S.
Necessary difference—6.01 bushels					Rainfall—May to August—9.66 inches				

LAWRENCE ANDERSON, GRENFELL									
7	7	Stewart	37.3	103	46	2.5	65	2 CW	T.
		Ramsey	42.0	102	45	2.0	64	2 CW	T.
		Pelissier	37.4	103	46	5.0	64	Ex. 4 CW	—
		Stewart-63	43.0	103	45	3.0	66	1 CW	—
		Canthatch	31.2	97	38	2.0	61	2 Nor.	S.
Necessary difference—3.69 bushels					Rainfall—May to August—12.04 inches				

Wheat Pool District 7—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ANTHONY PETRACEK, GERALD									
7	9	Stewart	—	94	39	9.0	62	3 CW	T.
		Ramsey	—	96	38	9.0	59	4 CW	T.
		Pelissier	—	102	39	9.0	54	5 CW	T.
		Stewart-63	—	103	40	9.0	63	3 CW	T.
		Canthatch	—	91	40	9.0	57	3 Nor.	Bl.
Test damaged by animals—yields not reliable						Rainfall—May to August—15.33 inches			

JAMES BERNATH, ATWATER									
7	10	Stewart	17.2	—	34	3.0	64	3 CW	Bl.
		Ramsey	17.2	—	31	2.8	64	2 CW	Bl.
		Pelissier	18.8	—	31	3.5	60	Ex. 4 CW	Bl.
		Stewart-63	16.9	—	36	4.3	65	2 CW	Bl., T.
		Canthatch	11.1	—	22	6.0	56	4 Nor.	Bl.
Necessary difference—3.61 bushels						Rainfall—May to August—incomplete			

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

7 11 Dennis Materl, Grayson

WHEAT POOL DISTRICT NUMBER 9

MYRNA DOLORES DAW, JASMIN									
9	1	Stewart	41.5	107	47	2.8	64	2 CW	T.
		Ramsey	37.6	105	40	2.5	64	2 CW	T.
		Pelissier	45.5	103	49	4.0	64	Ex. 4 CW	—
		Stewart-63	43.0	107	46	3.5	63	3 CW	T.
		Canthatch	35.3	98	39	1.0	59	3 Nor.	S.
Necessary difference—3.83 bushels						Rainfall—May to August—10.41 inches			

WILLIAM R. MILLER, DYSART									
9	2	Stewart	41.2	—	—	—	65	1 CW	—
		Ramsey	42.4	—	—	—	65	1 CW	—
		Pelissier	43.5	—	—	—	65	Ex. 4 CW	—
		Stewart-63	44.4	—	—	—	66	1 CW	—
		Canthatch	31.9	—	—	—	59	3 Nor.	Bl.
Necessary difference—2.46 bushels						Rainfall—May to August—incomplete			

MARVIN and RONALD HORVATH, LEROS									
9	3	Stewart	54.0	111	58	7.0	66	1 CW	—
		Ramsey	57.4	111	52	7.0	65	2 CW	T.
		Pelissier	36.0	109	54	9.0	62	Ex. 4 CW	T.
		Stewart-63	64.1	111	52	7.0	66	1 CW	—
		Canthatch	42.0	107	44	6.0	61	2 Nor.	S.
Necessary difference—5.96 bushels						Rainfall—May to August—9.54 inches			

LINDA MULHOLLAND, GOVAN									
9	5	Stewart	36.0	94	50	2.3	65	1 CW	—
		Ramsey	36.9	91	48	2.5	66	1 CW	—
		Pelissier	36.5	101	46	2.0	65	Ex. 4 CW	—
		Stewart-63	40.5	94	51	2.0	66	1 CW	—
		Canthatch	35.5	88	39	1.0	62	2 Nor.	S.
Necessary difference—2.86 bushels						Rainfall—May to August—9.50 inches			

JIM GETTIS, SEMANS									
9	7	Stewart	35.6	101	42	1.0	66	1 CW	—
		Ramsey	36.8	101	42	2.0	64	2 CW	T.
		Pelissier	36.6	104	42	1.0	64	Ex. 4 CW	—
		Stewart-63	35.8	101	42	1.3	65	1 CW	—
		Canthatch	35.5	101	32	1.0	62	2 Nor.	S.
Yield differences not significant						Rainfall—May to August—8.58 inches			

DONALD HOLMSTROM, LESLIE									
9	10	Stewart	40.3	101	46	1.0	65	2 CW	T.
		Ramsey	36.9	101	43	1.0	65	2 CW	T.
		Pelissier	36.0	105	47	1.0	64	Ex. 4 CW	—
		Stewart-63	43.3	101	45	1.0	65	2 CW	T.
		Canthatch	22.9	93	35	4.0	61	2 Nor.	S.
Necessary difference—7.74 bushels						Rainfall—May to August—9.75 inches			

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

9 4 Murray Barr, Strasbourg

WHEAT POOL DISTRICT NUMBER 10

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
NEIL SEAMAN, TUGASKE									
10	2	Stewart	25.3	—	38	2.0	63	2 CW	T.
		Ramsey	24.0	—	37	2.0	64	2 CW	T.
		Pelissier	24.8	—	40	2.5	62	Ex. 4 CW	—
		Stewart-63	26.6	—	39	2.0	63	2 CW	T.
		Canthatch	18.3	—	33	2.0	56	4 Nor.	S.
Necessary difference—1.84 bushels			Rainfall—May to August—10.31 inches						

LARRY and BOBBY KALLIO, DINSMORE									
10	4	Stewart	—	95	30	2.0	64	2 CW	T.
		Ramsey	—	89	32	2.0	66	1 CW	—
		Pelissier	—	93	31	3.0	64	Ex. 4 CW	—
		Stewart-63	—	95	30	2.3	64	2 CW	T.
		Canthatch	—	85	29	2.0	64	1 Nor.	—
Test damaged by hail—yields not reliable			Rainfall—May to August—11.26 inches						

ROBERT ZIEGLER, GLENSIDE									
10	6	Stewart	36.1	—	44	3.0	63	2 CW	T.
		Ramsey	35.0	—	42	2.0	62	3 CW	T.
		Pelissier	41.3	—	42	2.0	63	Ex. 4 CW	—
		Stewart-63	35.1	—	46	3.0	62	3 CW	T.
		Canthatch	28.8	—	36	1.0	57	4 Nor.	Bl.
Necessary difference—2.57 bushels			Rainfall—May to August—11.18 inches						

GERALD R. KEARNAN, DELISLE									
10	10	Stewart	36.0	97	47	3.5	65	2 CW	T.
		Ramsey	34.7	97	41	3.3	64	2 CW	T.
		Pelissier	40.5	98	44	2.5	64	Ex. 4 CW	T.
		Stewart-63	37.1	97	47	4.0	64	2 CW	T.
		Canthatch	30.7	96	36	2.3	60	3 Nor.	S.
Necessary difference—2.84 bushels			Rainfall—May to August—8.01 inches						

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:									
10	7	Mackie Allan, Girvin							
10	8	Ron Baht, Imperial							

WHEAT POOL DISTRICT NUMBER 11

CLIFFORD CRICKETT, BICKLEIGH									
11	2	Stewart	25.2	—	32	6.3	64	2 CW	T.
		Ramsey	30.1	—	32	6.8	65	2 CW	T.
		Pelissier	23.0	—	33	5.8	62	Ex. 4 CW	—
		Stewart-63	28.8	—	34	6.5	65	2 CW	T.
		Canthatch	21.3	—	29	8.0	58	3 Nor.	Bl.
Necessary difference—3.01 bushels			Rainfall—May to August—7.22 inches						

DAVID MITCHELL, KINDERSLEY									
11	3	Stewart	43.0	—	49	2.3	66	1 CW	—
		Ramsey	42.2	—	47	2.0	65	2 CW	T.
		Pelissier	40.0	—	48	2.3	65	Ex. 4 CW	—
		Stewart-63	44.1	—	49	2.3	66	1 CW	—
		Canthatch	24.7	—	34	2.0	60	2 Nor.	Bl.
Necessary difference—4.53 bushels			Rainfall—May to August—8.74 inches						

OTTO WICHERT, FISKE									
11	8	Stewart	50.9	94	51	5.0	66	1 CW	—
		Ramsey	46.5	93	51	5.0	65	2 CW	T.
		Pelissier	49.1	99	52	7.0	64	Ex. 4 CW	—
		Stewart-63	54.7	95	50	6.0	65	2 CW	T.
		Canthatch	35.2	88	40	4.0	61	2 Nor.	S.
Necessary difference—6.63 bushels			Rainfall—May to August—10.76 inches						

CLARENCE J. BUR, SMILEY									
11	10	Stewart	49.0	102	44	4.8	62	3 CW	T.
		Ramsey	46.9	102	41	4.3	63	2 CW	T.
		Pelissier	55.7	103	43	4.5	63	Ex. 4 CW	—
		Stewart-63	53.5	101	46	4.8	63	3 CW	T.
		Canthatch	38.2	101	33	3.8	60	2 Nor.	S.
Necessary difference—4.58 bushels			Rainfall—May to August—11.52 inches						

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:									
11	5	Joe Friedt, Merid							
11	9	Darryl Bender, Druid							

Table No. 26

INDIVIDUAL TEST RESULTS — FLAX

The results of all successful flax tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 9, headed, "Interpretation of Results."

IMPORTANT—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviation under "Grading Remarks," see page 9.

WHEAT POOL DISTRICT NUMBER 1

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
DWIGHT WILMOT, CARNDUFF								
1	1	Redwood	8.9	—	—	54	1 CW	—
		Norland	9.5	—	—	54	1 CW	—
		Cree	10.4	—	—	54	1 CW	—
		Arny	9.5	—	—	56	1 CW	—
		Marine	9.1	—	—	55	1 CW	—
Yield differences not significant			Rainfall—May to August—incomplete					

LINDA BELISLE, FERTILE								
1	2	Redwood	12.6	—	18	55	2 CW	W.
		Norland	12.9	—	18	54	2 CW	W.
		Cree	12.9	—	20	54	1 CW	—
		Arny	13.2	—	24	56	1 CW	—
		Marine	11.9	—	22	56	1 CW	—
Yield differences not significant			Rainfall—May to August—12.96 inches					

WALTER KOT, McTAGGART								
1	8	Redwood	16.6	101	23	55	1 CW	—
		Norland	18.7	101	24	55	1 CW	—
		Cree	19.5	101	23	55	1 CW	—
		Arny	18.0	101	25	56	1 CW	—
		Marine	15.4	99	22	57	1 CW	—
Necessary difference—1.86 bushels			Rainfall—May to August—13.92 inches					

RICKIE DE GEER, WORDSWORTH								
1	10	Redwood	—	99	24	55	1 CW	—
		Norland	—	98	26	54	1 CW	—
		Cree	—	98	24	55	1 CW	—
		Arny	—	99	28	55	1 CW	—
		Marine	—	94	24	55	1 CW	—
Test damaged by grasshoppers—yields not reliable			Rainfall—May to August—15.92 inches					

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

1 5 Gordon Gheysen, Benson

WHEAT POOL DISTRICT NUMBER 2

DENNIS MAZENC, RADVILLE								
2	1	Redwood	16.4	—	22	56	1 CW	—
		Norland	18.6	—	25	54	1 CW	—
		Cree	16.5	—	24	55	1 CW	—
		Arny	16.5	—	25	55	1 CW	—
		Marine	14.3	—	22	55	1 CW	—
Necessary difference—1.62 bushels			Rainfall—May to August—11.55 inches					

GLENN BELLEFLEUR, WILLOW BUNCH								
2	4	Redwood	15.5	—	—	55	1 CW	—
		Norland	15.4	—	—	54	1 CW	—
		Cree	13.8	—	—	55	1 CW	—
		Arny	13.6	—	—	55	1 CW	—
		Marine	13.5	—	—	55	1 CW	—
Necessary difference—1.40 bushels			Rainfall—May to August—incomplete					

Wheat Pool District 2—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
ALLEN NELSON, GLENTWORTH								
2	6	Redwood	15.2	89	28	55	1 CW	—
		Norland	13.0	91	31	54	1 CW	—
		Cree	15.2	88	29	55	1 CW	—
		Army	13.7	86	30	55	1 CW	—
		Marine	18.2	81	27	55	1 CW	—
Necessary difference—1.32 bushels			Rainfall—May to August—11.26 inches					

KEN KEVOL, ORMISTON								
2	8	Redwood	17.9	99	23	55	1 CW	—
		Norland	17.1	94	24	55	1 CW	—
		Cree	18.3	99	22	55	1 CW	—
		Army	17.1	99	24	56	1 CW	—
		Marine	16.9	94	21	56	1 CW	—
Yield differences not significant			Rainfall—May to August—12.33 inches					

NORMAN PEW, TROSSACHS								
2	10	Redwood	10.3	101	22	54	1 CW	—
		Norland	7.5	90	26	54	1 CW	—
		Cree	8.5	95	20	54	1 CW	—
		Army	7.8	80	20	54	1 CW	—
		Marine	10.7	79	23	54	1 CW	—
Necessary difference—1.26 bushels			Rainfall—May to August—15.20 inches					

WHEAT POOL DISTRICT NUMBER 3

DENIS CHABOT, FERLAND								
3	1	Redwood	13.9	—	—	56	1 CW	—
		Norland	9.4	—	—	55	1 CW	—
		Cree	13.4	—	—	56	1 CW	—
		Army	13.6	—	—	56	1 CW	—
		Marine	17.2	—	—	56	1 CW	—
Necessary difference—.66 bushels			Rainfall—May to August—10.05 inches					

CAROL CARLETON, ORKNEY								
3	2	Redwood	9.5	84	—	54	1 CW	—
		Norland	10.4	89	—	54	1 CW	—
		Cree	10.9	89	—	55	1 CW	—
		Army	8.9	86	—	55	1 CW	—
		Marine	11.2	84	—	55	1 CW	—
Yield differences not significant			Rainfall—May to August—4.99 inches					

GLENN R. HONEY, BRACKEN								
3	3	Redwood	—	—	—	54	1 CW	—
		Norland	—	—	—	53	1 CW	—
		Cree	—	—	—	54	1 CW	—
		Army	—	—	—	54	1 CW	—
		Marine	—	—	—	55	1 CW	—
Test damaged by grasshoppers—yields not reliable			Rainfall—May to August—6.50 inches					

HUGH McDONOUGH, CRICHTON								
3	9	Redwood	13.8	101	27	55	1 CW	—
		Norland	8.8	100	28	54	1 CW	—
		Cree	11.7	100	28	55	1 CW	—
		Army	12.9	101	28	56	1 CW	—
		Marine	18.6	91	25	56	1 CW	—
Necessary difference—1.61 bushels			Rainfall—May to August—7.93 inches					

GARRY RESVICK, ANEROID								
3	10	Redwood	7.6	—	—	55	1 CW	—
		Norland	6.2	—	—	55	1 CW	—
		Cree	6.6	—	—	55	1 CW	—
		Army	7.0	—	—	55	1 CW	—
		Marine	9.7	—	—	55	1 CW	—
Necessary difference—.54 bushels			Rainfall—May to August—incomplete					

WHEAT POOL DISTRICT NUMBER 4

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds measured bushel	Commercial grades	Grading remarks
JEAN JANS, MAPLE CREEK								
4	2	Redwood	16.8	94	20	55	1 CW	—
		Norland	16.9	94	22	54	1 CW	—
		Cree	16.3	92	20	54	1 CW	—
		Arny	16.9	90	23	55	1 CW	—
		Marine	16.9	87	18	56	1 CW	—
Yield differences not significant					Rainfall—May to August—8.87 inches			
STUART ROBERTSON, SUCCESS								
4	5	Redwood	10.8	96	28	56	1 CW	—
		Norland	8.5	98	29	56	1 CW	—
		Cree	9.0	95	30	56	1 CW	—
		Arny	8.7	97	30	57	1 CW	—
		Marine	17.3	83	28	56	1 CW	—
Necessary difference—1.64 bushels					Rainfall—May to August—8.86 inches			
LORNE R. JOHNSON, ABBEY								
4	6	Redwood	12.4	108	22	56	1 CW	—
		Norland	11.3	108	23	55	1 CW	—
		Cree	10.1	108	24	57	1 CW	—
		Arny	10.6	108	25	56	1 CW	—
		Marine	10.8	103	23	56	1 CW	—
Yield differences not significant					Rainfall—May to August—8.07 inches			
MICHAEL A. TUCHSCHERER, HORSHAM								
4	7	Redwood	10.6	97	21	55	1 CW	—
		Norland	10.7	98	21	55	1 CW	—
		Cree	9.5	96	23	55	1 CW	—
		Arny	9.5	99	26	56	1 CW	—
		Marine	10.0	93	20	56	1 CW	—
Yield differences not significant					Rainfall—May to August—8.39 inches			
ALLAN ROTH, MENDHAM								
4	8	Redwood	—	104	18	57	1 CW	—
		Norland	—	102	19	55	1 CW	—
		Cree	—	100	19	56	1 CW	—
		Arny	—	100	20	56	1 CW	—
		Marine	—	97	20	55	1 CW	—
Test damaged by grasshoppers—yields not reliable					Rainfall—May to August—6.80 inches			

WHEAT POOL DISTRICT NUMBER 5

RONNIE CUTHBERT, MOSSBANK								
5	1	Redwood	15.9	—	28	55	1 CW	—
		Norland	11.3	—	31	54	1 CW	—
		Cree	12.6	—	30	55	1 CW	—
		Arny	14.1	—	26	55	1 CW	—
		Marine	16.8	—	26	56	1 CW	—
Necessary difference—1.45 bushels					Rainfall—May to August—11.95 inches			
GARY KRUSHELNISKI, VANGUARD								
5	3	Redwood	12.7	—	—	55	1 CW	—
		Norland	12.3	—	—	54	1 CW	—
		Cree	12.8	—	—	54	1 CW	—
		Arny	11.5	—	—	55	1 CW	—
		Marine	12.5	—	—	55	1 CW	—
Yield differences not significant					Rainfall—May to August—7.39 inches			
LLOYD MEADOWS, MORTLACH								
5	7	Redwood	12.1	—	26	55	1 CW	—
		Norland	11.3	—	30	54	1 CW	—
		Cree	11.0	—	27	55	1 CW	—
		Arny	11.1	—	28	56	1 CW	—
		Marine	10.3	—	26	56	1 CW	—
Necessary difference—1.05 bushels					Rainfall—May to August—11.28 inches			
JIM MCGILLIVARY, CENTRAL BUTTE								
5	9	Redwood	12.7	76	27	55	1 CW	—
		Norland	11.0	74	28	54	1 CW	—
		Cree	11.2	79	27	55	1 CW	—
		Arny	10.2	78	31	56	1 CW	—
		Marine	10.5	70	25	56	1 CW	—
Necessary difference—1.35 bushels					Rainfall—May to August—10.72 inches			

Wheat Pool District 5—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
STARLA and GAYLENE BEACH, ERNFOLD								
5	10	Redwood	18.5	—	—	56	1 CW	—
		Norland	20.9	—	—	56	1 CW	—
		Cree	21.8	—	—	55	1 CW	—
		Arny	15.3	—	—	56	1 CW	—
		Marine	13.6	—	—	56	1 CW	—
Necessary difference—2.41 bushels					Rainfall—May to August—14.15 inches			

WHEAT POOL DISTRICT NUMBER 6

RAY BECK, LANG								
6	1	Redwood	16.1	—	26	56	1 CW	—
		Norland	19.7	—	26	56	1 CW	—
		Cree	18.4	—	29	56	1 CW	—
		Arny	16.0	—	28	56	1 CW	—
		Marine	17.5	—	25	56	1 CW	—
Necessary difference—1.71 bushels					Rainfall—May to August—16.56 inches			

MARILYN BRADLEY, MILESTONE								
6	3	Redwood	17.4	107	28	56	1 CW	—
		Norland	19.4	107	28	55	1 CW	—
		Cree	18.6	107	28	55	1 CW	—
		Arny	15.5	107	29	56	1 CW	—
		Marine	15.7	90	27	57	1 CW	—
Necessary difference—2.14 bushels					Rainfall—May to August—13.96 inches			

RICHARD SHORTLAND, BRIERCREST								
6	6	Redwood	17.5	—	—	55	1 CW	—
		Norland	14.2	—	—	54	1 CW	—
		Cree	15.7	—	—	54	1 CW	—
		Arny	17.7	—	—	56	1 CW	—
		Marine	21.0	—	—	55	1 CW	—
Necessary difference—2.84 bushels					Rainfall—May to August—incomplete			

BARRIE BROWN, QU'APPELLE								
6	9	Redwood	12.9	—	—	55	1 CW	—
		Norland	13.2	—	—	54	1 CW	—
		Cree	13.4	—	—	55	1 CW	—
		Arny	10.9	—	—	55	1 CW	—
		Marine	10.7	—	—	55	1 CW	—
Necessary difference—2.01 bushels					Rainfall—May to August—19.40 inches			

LEANDER DUNN, DISLEY								
6	10	Redwood	15.3	107	—	56	1 CW	—
		Norland	12.7	93	—	55	1 CW	—
		Cree	16.3	114	—	56	1 CW	—
		Arny	13.7	100	—	56	1 CW	—
		Marine	12.9	86	—	55	1 CW	—
Yield differences not significant					Rainfall—May to August—14.84 inches			

WHEAT POOL DISTRICT NUMBER 7

VELMA PEARCE, MOOSOMIN								
7	2	Redwood	—	—	21	55	2 CW	W.
		Norland	—	—	17	54	2 CW	W.
		Cree	—	—	16	54	2 CW	W.
		Arny	—	—	17	55	2 CW	W.
		Marine	—	—	21	55	2 CW	W.
Test damaged by wind—yields not reliable					Rainfall—May to August—15.96 inches			

KENNETH ATKINSON, KIPLING								
7	4	Redwood	—	109	19	55	1 CW	—
		Norland	—	109	19	54	1 CW	—
		Cree	—	104	19	54	1 CW	—
		Arny	—	104	20	56	1 CW	—
		Marine	—	103	19	56	1 CW	—
Incorrect spacing—yields not reliable					Rainfall—May to August—12.55 inches			

Wheat Pool District 7—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
BARRY MACPHERSON, MONTMARTRE								
7	6	Redwood	11.5	93	25	55	1 CW	—
		Norland	10.3	93	24	54	1 CW	—
		Cree	11.9	97	27	55	1 CW	—
		Arny	11.7	93	24	56	1 CW	—
		Marine	12.0	87	22	56	1 CW	—
Yield differences not significant			Rainfall—May to August—11.26 inches					

EVERETT SMART, HAZELCLIFFE								
7	9	Redwood	16.3	—	—	52	3 CW	W.
		Norland	19.3	—	—	51	2 CW	W.
		Cree	21.6	—	—	54	2 CW	W.
		Arny	20.2	—	—	54	2 CW	W.
		Marine	17.0	—	—	54	2 CW	W.
Necessary difference—2.39 bushels			Rainfall—May to August—15.99 inches					

LEON POWELL, WALDRON								
7	11	Redwood	8.4	104	23	55	1 CW	—
		Norland	11.6	104	23	55	1 CW	—
		Cree	10.3	104	24	55	1 CW	—
		Arny	10.5	104	22	56	1 CW	—
		Marine	9.0	96	18	55	1 CW	—
Yield differences not significant			Rainfall—May to August—14.80 inches					

WHEAT POOL DISTRICT NUMBER 8

ALLEN KOTZER, LANGENBURG								
8	1	Redwood	16.0	117	19	56	1 CW	—
		Norland	16.9	115	22	55	1 CW	—
		Cree	16.4	113	19	56	1 CW	—
		Arny	16.7	117	19	56	1 CW	—
		Marine	15.1	117	21	56	1 CW	—
Yield differences not significant			Rainfall—May to August—14.02 inches					

WARREN BENEDIK, MELVILLE								
8	3	Redwood	21.6	87	26	56	1 CW	—
		Norland	21.6	88	30	55	1 CW	—
		Cree	23.5	88	29	56	1 CW	—
		Arny	20.2	87	29	56	1 CW	—
		Marine	15.7	85	27	56	1 CW	—
Necessary difference—3.65 bushels			Rainfall—May to August—14.61 inches					

HAROLD P. LUCASH, VEREGIN								
8	5	Redwood	15.9	95	19	56	1 CW	—
		Norland	16.7	93	18	56	1 CW	—
		Cree	16.1	89	19	56	1 CW	—
		Arny	16.0	93	20	57	1 CW	—
		Marine	10.9	85	18	57	1 CW	—
Necessary difference—1.47 bushels			Rainfall—May to August—9.35 inches					

SYLVIA RUSNAK, INSINGER								
8	7	Redwood	14.8	—	25	56	1 CW	—
		Norland	18.9	—	27	56	1 CW	—
		Cree	18.7	—	26	55	1 CW	—
		Arny	17.0	—	27	55	1 CW	—
		Marine	11.9	—	23	57	1 CW	—
Necessary difference—2.68 bushels			Rainfall—May to August—8.72 inches					

JERRY CHERMCORA, HYAS								
8	9	Redwood	11.6	—	—	56	1 CW	—
		Norland	18.7	—	—	55	1 CW	—
		Cree	18.3	—	—	56	1 CW	—
		Arny	18.1	—	—	56	1 CW	—
		Marine	15.4	—	—	57	1 CW	—
Necessary difference—2.12 bushels			Rainfall—May to August—incomplete					

WHEAT POOL DISTRICT NUMBER 9

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds measured bushel	Commercial grades	Grading remarks
HARRY SMITH GOVAN								
9	6	Redwood	12.0	—	—	56	1 CW	—
		Norland	13.0	—	—	54	1 CW	—
		Cree	13.3	—	—	55	1 CW	—
		Arny	11.7	—	—	55	1 CW	—
		Marine	9.3	—	—	56	1 CW	—
Necessary difference—1.42 bushels			Rainfall—May to August—9.19 inches					
WAYNE WODTKE, PUNNICHY								
9	7	Redwood	8.5	—	25	56	1 CW	—
		Norland	11.6	—	28	55	1 CW	—
		Cree	14.8	—	27	55	1 CW	—
		Arny	12.4	—	29	56	1 CW	—
		Marine	6.9	—	25	56	1 CW	—
Necessary difference—1.73 bushels			Rainfall—May to August—10.81 inches					
GLEN D. MCGREGOR, WYNYARD								
9	8	Redwood	7.6	—	29	56	1 CW	—
		Norland	12.6	—	32	55	1 CW	—
		Cree	12.0	—	29	56	1 CW	—
		Arny	13.1	—	32	57	1 CW	—
		Marine	3.6	—	26	56	1 CW	—
Marine damaged by birds—yields not included in district summary			Rainfall—May to August—11.18 inches					
BRIAN and DOUGLAS FORD, ELFROS								
9	10	Redwood	7.2	—	—	55	1 CW	—
		Norland	5.3	—	—	54	1 CW	—
		Cree	10.1	—	—	54	1 CW	—
		Arny	9.2	—	—	55	1 CW	—
		Marine	6.5	—	—	55	1 CW	—
Necessary difference—1.70 bushels			Rainfall—May to August—7.56 inches					
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
9	2	Ronald Bosche, Markinch						

WHEAT POOL DISTRICT NUMBER 10

DONALD AMBROSE, AYLESBURY								
10	1	Redwood	—	—	28	56	1 CW	—
		Norland	—	—	30	54	1 CW	—
		Cree	—	—	29	56	1 CW	—
		Arny	—	—	30	56	1 CW	—
		Marine	—	—	25	56	1 CW	—
Test damaged by grasshoppers—yields not reliable					Rainfall—May to August—15.22 inches			
DON TREW, BEECHY								
10	3	Redwood	19.7	—	25	57	1 CW	—
		Norland	19.1	—	27	56	1 CW	—
		Cree	20.5	—	27	56	1 CW	—
		Arny	19.2	—	26	57	1 CW	—
		Marine	17.6	—	22	56	1 CW	—
Yield differences not significant					Rainfall—May to August—9.97 inches			
JACK HOPKINS, SURBITON								
10	5	Redwood	16.4	110	28	56	1 CW	—
		Norland	13.0	107	27	55	1 CW	—
		Cree	16.2	109	27	54	1 CW	—
		Arny	16.0	111	27	55	1 CW	—
		Marine	13.2	104	28	55	1 CW	—
Necessary difference—2.92 bushels					Rainfall—May to August—10.88 inches			
LAURIE V. LOCKWOOD, DAVIDSON								
10	7	Redwood	27.3	88	27	56	1 CW	—
		Norland	31.1	93	32	56	1 CW	—
		Cree	28.0	88	27	56	1 CW	—
		Arny	27.1	92	30	56	1 CW	—
		Marine	24.8	86	26	56	1 CW	—
Necessary difference—2.60 bushels					Rainfall—May to August—10.19 inches			

Wheat Pool District 10—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
JAY HENRYK, KENASTON								
10	9	Redwood	27.2	106	29	56	1 CW	—
		Norland	24.4	108	28	57	1 CW	—
		Cree	26.5	102	30	57	1 CW	—
		Arny	23.3	103	31	55	1 CW	—
		Marine	20.2	95	26	57	1 CW	—
Necessary difference—2.73 bushels			Rainfall—May to August—11.38 inches					

WHEAT POOL DISTRICT NUMBER 11

OWEN STEPHENSON, SANCTUARY								
11	1	Redwood	11.1	—	19	57	1 CW	—
		Norland	10.6	—	18	57	1 CW	—
		Cree	12.4	—	19	56	1 CW	—
		Arny	10.7	—	20	57	1 CW	—
		Marine	9.6	—	18	57	1 CW	—
Necessary difference—1.59 bushels			Rainfall—May to August—8.30 inches					

HERBERT LOCK, KINDERSLEY								
11	5	Redwood	15.0	103	23	56	1 CW	—
		Norland	15.5	103	24	55	1 CW	—
		Cree	16.3	98	25	56	1 CW	—
		Arny	15.4	103	26	57	1 CW	—
		Marine	15.0	100	24	57	1 CW	—
Yield differences not significant			Rainfall—May to August—8.51 inches					

MARCEL DUBOIS, ROSETOWN								
11	7	Redwood	19.2	104	25	55	1 CW	—
		Norland	17.7	104	26	54	2 CW	W.
		Cree	19.8	93	26	55	1 CW	—
		Arny	16.3	98	29	56	1 CW	—
		Marine	20.3	93	23	56	1 CW	—
Necessary difference—2.60 bushels			Rainfall—May to August—9.05 inches					

LARRY and GERALD DEITSCH, McGEE								
11	8	Redwood	20.9	—	—	57	1 CW	—
		Norland	20.4	—	—	56	1 CW	—
		Cree	19.9	—	—	56	1 CW	—
		Arny	17.3	—	—	56	1 CW	—
		Marine	17.1	—	—	56	1 CW	—
Necessary difference—2.03 bushels			Rainfall—May to August—8.36 inches					

BRYAN M. SCHMIDT, MAJOR								
11	10	Redwood	18.5	110	34	52	3 CW	W.
		Norland	16.6	112	36	53	2 CW	W.
		Cree	20.4	108	32	53	2 CW	W.
		Arny	18.0	109	32	52	3 CW	W.
		Marine	18.9	95	31	55	1 CW	—
Necessary difference—2.10 bushels			Rainfall—May to August—11.33 inches					

WHEAT POOL DISTRICT NUMBER 12

RICHARD G. DOMES, BIGGAR								
12	2	Redwood	20.8	—	—	56	1 CW	—
		Norland	16.7	—	—	58	1 CW	—
		Cree	19.2	—	—	58	1 CW	—
		Arny	18.4	—	—	57	1 CW	—
		Marine	20.3	—	—	56	1 CW	—
Necessary difference—2.64 bushels			Rainfall—May to August—11.52 inches					

RON KOENIG, REWARD								
12	5	Redwood	17.3	111	22	57	1 CW	—
		Norland	17.1	111	23	57	1 CW	—
		Cree	17.8	112	22	57	1 CW	—
		Arny	18.0	112	25	57	1 CW	—
		Marine	15.0	109	19	57	1 CW	—
Yield differences not significant			Rainfall—May to August—18.20 inches					

Wheat Pool District 12—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
GLEN ALLAN HINCH, NEILBURG								
12	8	Redwood	35.0	—	26	55	1 CW	—
		Norland	28.1	—	28	55	1 CW	—
		Cree	33.6	—	29	55	1 CW	—
		Arny	34.1	—	30	55	1 CW	—
		Marine	29.8	—	24	56	1 CW	—
Necessary difference—4.58 bushels					Rainfall—May to August—14.15 inches			
HARRY W. LAWRENCE, CUT KNIFE								
12	9	Redwood	—	—	15	56	1 CW	—
		Norland	—	—	16	57	1 CW	—
		Cree	—	—	18	56	1 CW	—
		Arny	—	—	18	57	1 CW	—
		Marine	—	—	18	54	1 CW	—
Test damaged by shattering—yields not reliable					Rainfall—May to August—13.21 inches			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
12	1	Delmar Boyne, Biggar						

WHEAT POOL DISTRICT NUMBER 13

CLIFFORD J. WIEBE, GUERNSEY								
13	1	Redwood	8.2	—	29	56	1 CW	—
		Norland	7.3	—	30	56	1 CW	—
		Cree	6.7	—	29	55	1 CW	—
		Arny	7.2	—	30	56	1 CW	—
		Marine	8.5	—	26	56	1 CW	—
Yield differences not significant					Rainfall—May to August—10.01 inches			
BARRY SKARRA, PETERSON								
13	9	Redwood	—	96	21	56	1 CW	—
		Norland	—	96	23	55	1 CW	—
		Cree	—	94	22	56	1 CW	—
		Arny	—	95	25	57	1 CW	—
		Marine	—	93	22	56	1 CW	—
Test damaged by grasshoppers—yields not reliable					Rainfall—May to August—7.96 inches			
PAUL TINANT, MUENSTER								
13	11	Redwood	4.3	—	23	55	2 CW	W.
		Norland	4.4	—	25	55	2 CW	W.
		Cree	5.8	—	24	54	2 CW	W.
		Arny	5.0	—	25	55	2 CW	W.
		Marine	4.8	—	23	56	1 CW	—
Yield differences not significant					Rainfall—May to August—9.94 inches			
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
13	4	Bruce Mellicke, Clavet						
13	5	Conrad Wiens, Dalmeny						
13	5	Henry Grimm, Saskatoon						

WHEAT POOL DISTRICT NUMBER 14

KEITH KETILSON, NAICAM								
14	3	Redwood	—	—	19	56	1 CW	—
		Norland	—	—	18	55	1 CW	—
		Cree	—	—	20	56	1 CW	—
		Arny	—	—	19	56	1 CW	—
		Marine	—	—	19	56	1 CW	—
Poor germination—yields not reliable					Rainfall—May to August—9.99 inches			
GORDON D. PHILLIPS, VALPARAISO								
14	7	Redwood	20.2	97	21	57	1 CW	—
		Norland	21.9	98	23	56	1 CW	—
		Cree	20.6	101	24	56	1 CW	—
		Arny	20.5	100	26	57	1 CW	—
		Marine	17.9	94	23	56	1 CW	—
Necessary difference—1.43 bushels					Rainfall—May to August—9.87 inches			

Wheat Pool District 14—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
GARRY J. STEVENSON, ETHELTON								
14	8	Redwood	15.5	100	22	55	1 CW	—
		Norland	14.7	100	24	56	1 CW	—
		Cree	17.1	95	27	56	1 CW	—
		Arny	16.2	97	29	57	1 CW	—
		Marine	15.7	90	25	56	1 CW	—
Part of test discarded—yields not included in district summary					Rainfall—May to August—9.00 inches			
RALPH L. WHENHAM, TISDALE								
14	10	Redwood	7.6	94	27	56	1 CW	—
		Norland	10.8	93	29	56	1 CW	—
		Cree	13.5	93	29	56	1 CW	—
		Arny	14.5	94	34	56	1 CW	—
		Marine	10.2	91	26	56	1 CW	—
Necessary difference—4.09 bushels					Rainfall—May to August—10.01 inches			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
14	4	Allan and Harold Pugh, Rose Valley						

WHEAT POOL DISTRICT NUMBER 15

THEODORE PFEFFERLE, DUCK LAKE								
15	3	Redwood	—	—	29	56	1 CW	—
		Norland	—	—	31	57	1 CW	—
		Cree	—	—	28	56	1 CW	—
		Arny	—	—	31	57	1 CW	—
		Marine	—	—	28	57	1 CW	—
Test damaged by shattering—yields not reliable					Rainfall—May to August—11.57 inches			
ALFRED J. KLEIN, HEPBURN								
15	4	Redwood	19.1	—	36	55	1 CW	—
		Norland	17.7	—	36	55	1 CW	—
		Cree	19.7	—	36	55	1 CW	—
		Arny	18.9	—	36	56	1 CW	—
		Marine	16.4	—	36	55	1 CW	—
Yield differences not significant					Rainfall—May to August—10.10 inches			
JACQUES DURET, VICTOIRE								
15	7	Redwood	14.9	96	—	55	1 CW	—
		Norland	8.8	98	—	54	2 CW	W.
		Cree	13.2	98	—	54	1 CW	—
		Arny	14.7	98	—	56	1 CW	—
		Marine	18.0	91	—	55	2 CW	W.
Necessary difference—2.42 bushels					Rainfall—May to August—12.36 inches			
DOUG MOROSH, SPRUCE HOME								
15	9	Redwood	12.5	—	—	56	1 CW	—
		Norland	12.5	—	—	55	1 CW	—
		Cree	16.4	—	—	55	1 CW	—
		Arny	17.4	—	—	55	1 CW	—
		Marine	11.0	—	—	55	1 CW	—
Necessary difference—3.26 bushels					Rainfall—May to August—7.46 inches			
DOUGLAS and ROBERT ARCHIBALD, CHOICELAND								
15	11	Redwood	10.2	—	—	57	1 CW	—
		Norland	11.3	—	—	54	2 CW	W.
		Cree	12.8	—	—	58	1 CW	—
		Arny	12.3	—	—	57	1 CW	—
		Marine	9.5	—	—	57	1 CW	—
Necessary difference—1.37 bushels					Rainfall—May to August—incomplete			

WHEAT POOL DISTRICT NUMBER 16

BERLE CHVALA, NORTH BATTLEFORD								
16	3	Redwood	20.0	—	31	56	1 CW	—
		Norland	17.4	—	32	56	1 CW	—
		Cree	19.6	—	31	56	1 CW	—
		Arny	16.7	—	37	56	1 CW	—
		Marine	17.2	—	29	56	1 CW	—
Yield differences not significant					Rainfall—May to August—9.40 inches			

Wheat Pool District 16—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
LOUIS Ph. HAMEL, PRINCE								
16	4	Redwood	16.7	90	30	56	1 CW	—
		Norland	12.8	90	36	56	1 CW	—
		Cree	17.8	90	35	56	1 CW	—
		Army	18.0	92	33	57	1 CW	—
		Marine	17.4	89	30	57	1 CW	—
Necessary difference—			.96 bushels	Rainfall—May to August—10.08 inches				
TERRENCE TOWNLEY-SMITH, LASHBURN								
16	6	Redwood	22.2	100	28	57	1 CW	—
		Norland	20.4	108	33	56	1 CW	—
		Cree	28.0	99	29	57	1 CW	—
		Army	25.3	99	31	57	1 CW	—
		Marine	20.0	95	26	57	1 CW	—
Necessary difference—			2.56 bushels	Rainfall—May to August—10.87 inches				
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
16	7	Robert Barradell, Paradise Hill						



Malcolm Bowker of Unity is shown examining the various varieties in his test.



Garry Stevenson located his flax test in a wheat field, at a safe distance from birds and livestock.

Table No. 27

Feed Comparison Tests

The results of all successful feed comparison tests are shown individually in the following table. The tests are arranged in the order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 9 headed "Interpretation of Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis of choice of a grain. A more reliable guide can be obtained by comparing the results of several tests conducted in an area where conditions are more or less similar.

For an explanation of the terms "Total digestible nutrients" and "Digestible crude protein" see page 24.

WHEAT POOL DISTRICT NUMBER 1

Dist.	Sub-Dist.	Grains	Days Seeding to Ripening	Plant Height in Inches	Yield in lbs. per acre	Total digestible nutrients in lbs. per acre	% Digestible crude protein	Total digestible nutrients in lbs. per acre	% Digestible crude protein
						FOR CATTLE		FOR SWINE	
BRADLEY McKENZIE, TRIBUNE									
1	7	Thatcher	94	34	—	—	—	—	—
		Rodney	93	34	—	—	—	—	—
		Husky	91	26	—	—	—	—	—
		O-B Mixture	91	30	—	—	—	—	—
		W-O-B Mixture	93	33	—	—	—	—	—
Test damaged by gophers—yields not reliable						Rainfall—May to August—13.82 inches.			

BOB MORTON, KISBEY									
1	9	Thatcher	84	27	1374.9	1065	12.38	1061	13.91
		Rodney	87	30	3045.5	2045	9.62	1867	10.83
		Husky	82	13	1830.6	1258	8.65	1176	8.52
		O-B Mixture	85	24	2242.1	1522	9.13	1410	9.92
		W-O-B Mixture	88	28	2144.7	1504	10.18	1452	10.90
Necessary difference—468 lbs.						Rainfall—May to August—17.76 inches			

WHEAT POOL DISTRICT NUMBER 2

DWAYN DUNN, OGEMA									
2	9	Thatcher	90	38	1261.5	964	15.27	917	15.85
		Rodney	84	41	1369.1	933	10.57	819	11.55
		Husky	84	37	2046.7	1462	11.50	1316	10.61
		O-B Mixture	84	37	1686.1	1170	11.92	1032	11.46
		W-O-B Mixture	86	38	1356.0	946	11.42	854	11.44
Necessary difference—487 lbs.						Rainfall—May to August—incomplete			

GARRY L. HOLT, BENGOUGH									
2	11	Thatcher	84	37	1315.3	1011	14.91	969	15.65
		Rodney	86	36	1235.3	826	11.93	725	12.59
		Husky	81	39	3256.4	2297	10.47	2131	9.93
		O-B Mixture	85	39	2523.6	1767	11.27	1611	10.94
		W-O-B Mixture	85	37	2442.1	1738	11.89	1592	11.48
Necessary difference—540 lbs.						Rainfall—May to August—12.33 inches			

WHEAT POOL DISTRICT NUMBER 3

DAVID J. SAVILLE, RAVENSCRAG									
3	6	Thatcher	—	32	635.4	489	13.63	488	14.87
		Rodney	—	30	1133.5	760	10.98	666	11.81
		Husky	—	32	1990.0	1415	10.65	1329	10.18
		O-B Mixture	—	32	1484.5	1024	11.41	1001	10.95
		W-O-B Mixture	—	31	1523.8	1090	11.34	1021	11.49
Necessary difference—393 lbs.						Rainfall—May to August—7.28 inches			

Wheat Pool District 3—Continued

Dist.	Sub-Dist.	Grains	Days Seeding to Ripening	Plant Height in inches	Yield in lbs. per acre	Total digestible nutrients in lbs. per acre	% Digestible crude protein	Total digestible nutrients in lbs. per acre	% Digestible crude protein
						FOR CATTLE		FOR SWINE	
GORDON POPPY, SHAUNAVON									
3	8	Thatcher	92	36	1648.3	1257	13.24	1241	14.54
		Rodney	92	36	1151.0	759	15.80	609	14.81
		Husky	86	34	2903.1	2047	12.91	1801	11.31
		O-B Mixture	88	35	2553.2	1767	12.43	1612	11.55
		W-O-B Mixture	88	35	2370.9	1690	13.31	1513	12.47
Necessary difference—410 lbs.						Rainfall—May to August—7.29 inches			

WHEAT POOL DISTRICT NUMBER 4

ALLAN W. SANDAU, MAPLE CREEK									
4	2	Thatcher	86	22	—	—	—	—	—
		Rodney	87	18	—	—	—	—	—
		Husky	85	12	—	—	—	—	—
		O-B Mixture	87	16	—	—	—	—	—
		W-O-B Mixture	86	15	—	—	—	—	—
Test damaged by grasshoppers—yields not reliable						Rainfall—May to August—8.66 inches			
DAVID HALE, LEMS FORD									
4	9	Thatcher	92	34	—	—	—	—	—
		Rodney	90	32	—	—	—	—	—
		Husky	87	33	—	—	—	—	—
		O-B Mixture	90	33	—	—	—	—	—
		W-O-B Mixture	90	34	—	—	—	—	—
Oats damaged—yields not reliable						Rainfall—May to August—7.55 inches			

WHEAT POOL DISTRICT NUMBER 5

GARRY McDOWELL, CARON									
5	7	Thatcher	—	38	1811.7	1400	13.81	1353	14.92
		Rodney	—	39	2426.5	1650	10.00	1461	11.11
		Husky	—	38	3865.6	2761	10.24	2577	9.88
		O-B Mixture	—	38	3058.6	2155	10.03	1949	10.35
		W-O-B Mixture	—	38	2776.6	1969	10.44	1827	10.88
Necessary difference—456 lbs.						Rainfall—May to August—12.25 inches			
Test discarded on account of damage by pests, hail, drought or other causes:									
5	6	Robert Duckworth, Courval							

WHEAT POOL DISTRICT NUMBER 6

ELAINE McKENZIE, MOOSE JAW									
6	5	Thatcher	83	—	1689.0	1305	11.82	1327	13.56
		Rodney	83	—	2539.6	1687	9.18	1551	10.36
		Husky	83	—	3316.0	2365	8.32	2326	8.60
		O-B Mixture	83	—	3254.9	2284	7.88	2233	8.60
		W-O-B Mixture	83	—	2650.1	1881	8.83	1826	9.54
Necessary difference—375 lbs.						Rainfall—May to August—12.70 inches			
Test discarded on account of damage by pests, hail, drought and other causes:									
6	2	Adam Tomaschefski, Odessa							

WHEAT POOL DISTRICT NUMBER 7

Dist.	Sub-Dist.	Grains	Days Seeding to Ripening	Plant Height in Inches	Yield in lbs. per acre	Total digestible nutrients in lbs. per acre	% Digestible crude protein	Total digestible nutrients in lbs. per acre	% Digestible crude protein
						FOR CATTLE		FOR SWINE	
KENNETH EASTON, KENNEDY									
7	3	Thatcher	91	34	2114.0	1638	11.39	1674	13.20
		Rodney	92	35	2388.9	1697	10.25	1539	11.33
		Husky	90	28	2338.0	1661	10.67	1541	10.14
		O-B Mixture	92	32	2623.0	1806	10.24	1655	10.73
		W-O-B Mixture	92	31	2484.9	1767	10.63	1639	11.21

Yield differences not significant

Rainfall—May to August—15.88 inches

Test discarded on account of damage by pests, hail, drought or other causes:

7 8 Vincent Fredlund, Whitewood

WHEAT POOL DISTRICT NUMBER 8

BENNY TABIN, INVERMAY									
8	7	Thatcher	99	35	—				
		Rodney	99	34	—				
		Husky	99	31	—				
		O-B Mixture	99	33	—				
		W-O-B Mixture	100	35	—				

Test damaged by birds—yields not reliable

Rainfall—May to August—9.75 inches

JOHNNY and DAVID KROCHAK, ARRAN									
8	10	Thatcher	—	36	1665	1290	10.85	1342	12.82
		Rodney	—	34	1874	1264	9.14	1166	10.30
		Husky	—	30	3539	2523	8.26	2492	8.55
		O-B Mixture	—	36	2907	2025	8.30	1970	9.09
		W-O-B Mixture	—	34	2571	1846	9.07	1793	10.06

Necessary difference—517 lbs.

Rainfall—May to August—7.87 inches

WHEAT POOL DISTRICT NUMBER 9

GORDON M. SCHMIDT, DUVAL									
9	5	Thatcher	81	33	2019.0	1553	13.43	1538	14.71
		Rodney	78	36	1859.7	1263	10.09	1136	11.25
		Husky	78	31	3275.9	2357	9.32	2240	9.29
		O-B Mixture	79	34	2691.4	1890	9.68	1773	9.95
		W-O-B Mixture	79	32	2269.1	1645	10.89	1569	11.47

Necessary difference—228 lbs.

Rainfall—May to August—12.02 inches

MYRON SEREDA, WEST BEND									
9	9	Thatcher	98	38	2100.6	1865	10.73	1925	12.70
		Rodney	101	38	2340.4	1593	10.88	1378	11.75
		Husky	97	31	4316.3	3113	7.76	3071	8.16
		O-B Mixture	101	32	3516.6	2476	9.22	2326	9.67
		W-O-B Mixture	100	32	3098.5	2294	9.11	2305	10.53

Necessary difference—533 lbs.

Rainfall—May to August—12.01 inches

WHEAT POOL DISTRICT NUMBER 10

Dist.	Sub-Dist.	Grains	Days Seeding to Ripening	Plant Height in Inches	Yield in lbs. per acre	Total digestible nutrients in lbs. per acre	% Digestible crude protein	Total digestible nutrients in lbs. per acre	% Digestible crude protein
						FOR CATTLE		FOR SWINE	
LORNE SHEPPARD, DEMAINE									
10	3	Thatcher	91	38	2699.5	2081	13.36	2062	14.67
		Rodney	93	38	1805.3	1206	11.11	1057	12.03
		Husky	89	36	3814.7	2734	10.04	2570	9.78
		O-B Mixture	91	38	2958.3	2082	10.30	1921	10.30
		W-O-B Mixture	91	39	3096.4	2234	11.00	2105	11.46
Necessary difference—404 lbs.						Rainfall—May to August—10.39 inches			

BRUCE F. ROUSE, DONAVON									
10	10	Thatcher	89	30	1190.8	913	15.76	867	16.21
		Rodney	83	31	923.3	624	12.27	531	12.70
		Husky	83	28	2365.7	1692	11.20	1556	10.50
		O-B Mixture	83	32	1713.7	1224	11.19	1146	11.22
		W-O-B Mixture	83	31	1595.0	1134	12.42	1030	12.11
Necessary difference—148 lbs.						Rainfall—May to August—9.34 inches			

WHEAT POOL DISTRICT NUMBER 11

BARBARA McKNIGHT, KINDERSLEY									
11	6	Thatcher	97	41	1793.8	1379	15.05	1329	15.79
		Rodney	93	43	2557.6	1681	10.72	1523	11.65
		Husky	93	40	3802.2	2690	11.60	2436	10.68
		O-B Mixture	93	41	3380.0	2352	10.93	2129	10.85
		W-O-B Mixture	93	41	2854.2	2022	11.96	1876	11.89
Necessary difference—829 lbs.						Rainfall—May to August—8.97 inches			

WHEAT POOL DISTRICT NUMBER 12

EDWARD GINTAUT, LUSELAND									
12	4	Thatcher	87	34	2464.5	1895	12.47	1895	14.35
		Rodney	83	31	1925.1	1277	10.00	1177	11.14
		Husky	81	35	6266.7	4483	9.42	4347	9.18
		O-B Mixture	86	36	4831.1	3446	8.84	3322	9.13
		W-O-B Mixture	86	35	4403.6	3141	10.22	3028	10.38
Necessary difference—388 lbs.						Rainfall—May to August—11.12 inches			

HOWARD L. WALLACE, WILKIE									
12	9	Thatcher	100	31	1681.7	1299	11.71	1311	13.76
		Rodney	101	33	3027.0	1489	10.41	1317	11.42
		Husky	97	33	4688.6	3392	8.27	3327	8.39
		O-B Mixture	100	34	3526.8	2498	8.59	2369	9.20
		W-O-B Mixture	99	33	2490.7	1772	9.01	1730	9.79
Necessary difference—1050 lbs.						Rainfall—May to August—12.77 inches			

WHEAT POOL DISTRICT NUMBER 13

Dist.	Sub-Dist.	Grains	Days Seeding to Ripening	Plant Height in Inches	Yield in lbs. per acre	Total digestible nutrients in lbs. per acre	% Digestible crude protein	Total digestible nutrients in lbs. per acre	% Digestible crude protein
						FOR CATTLE		FOR SWINE	
WAYNE BONDEROFF, ARELEE									
13	7	Thatcher	87	38	1523.8	1182	10.51	1215	12.81
		Rodney	87	31	964.0	654	8.49	592	9.83
		Husky	86	31	2740.2	1985	8.49	1909	9.00
		O-B Mixture	87	34	2087.9	1461	8.63	1461	9.38
		W-O-B Mixture	87	35	1790.7	1294	8.74	1269	9.77
Necessary difference—593 lbs.						Rainfall—May to August—9.90 inches			

WHEAT POOL DISTRICT NUMBER 14

GLEN JOHNSON, GREENWATER LAKE									
14	1	Thatcher	—	—	1744.2	1353	11.69	1360	13.74
		Rodney	—	—	1794.2	1220	8.12	1126	9.49
		Husky	—	—	2755.3	1982	8.96	1916	8.82
		O-B Mixture	—	—	2089.4	1402	8.61	1321	9.32
		W-O-B Mixture	—	—	1868.4	1336	10.47	1256	11.21
Necessary difference—497 lbs.						Rainfall—May to August—incomplete			
EMERSON REDIGER, CARROT RIVER									
14	11	Thatcher	—	29	1632.3	1262	12.67	1252	14.50
		Rodney	—	33	1781.2	1211	9.25	1113	10.58
		Husky	—	26	2098.1	1507	7.95	1486	8.08
		O-B Mixture	—	31	1992.9	1398	10.01	1285	10.33
		W-O-B Mixture	—	30	1702.1	1559	10.29	1475	10.98
Necessary difference—288 lbs.						Rainfall—May to August—10.80 inches			

WHEAT POOL DISTRICT NUMBER 15

BILL McDONALD, ALINGLY									
15	9	Thatcher	—	—	1663.4	1297	8.80	1374	11.30
		Rodney	—	—	2577.9	1707	7.84	1719	9.52
		Husky	—	—	2074.9	1502	7.83	1478	8.01
		O-B Mixture	—	—	2489.2	1754	7.69	1682	8.58
		W-O-B Mixture	—	—	2145.5	1574	8.30	1469	9.39
Necessary difference—503 lbs.						Rainfall—May to August—incomplete			
Test discarded on account of damage by pests, hail, drought or other causes:									
15	8	Raymond Provencher, Foxdale							

WHEAT POOL DISTRICT NUMBER 16

Tests discarded on account of damage by pests, hail, drought or other causes:									
16	5	Teddy Wesson, Maidstone							
16	8	Don Altman, St. Walburg							

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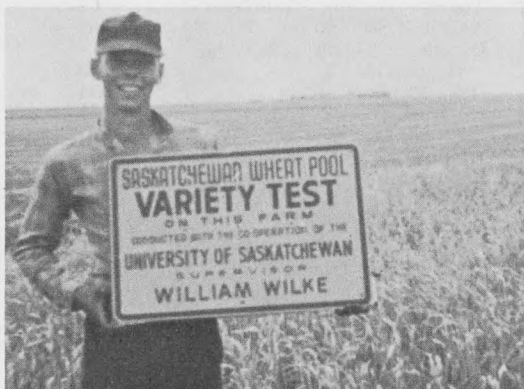
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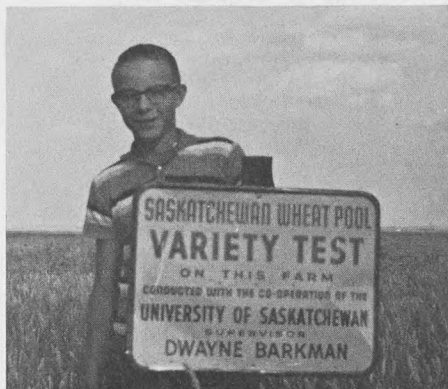
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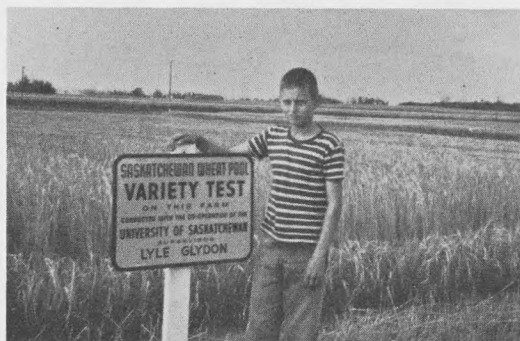
Marilyn Bradley displays two signs, one showing the location of her test, and the other asking visitors not to pick any heads from it.



William Wilke of Yellow Grass is shown standing beside his test at harvest time.



Dwayne Barkman smiles with pride as he stands beside his durum test at Flowing Well.



A well-displayed sign indicates the location of Lyle Glydon's test at Kipling.

